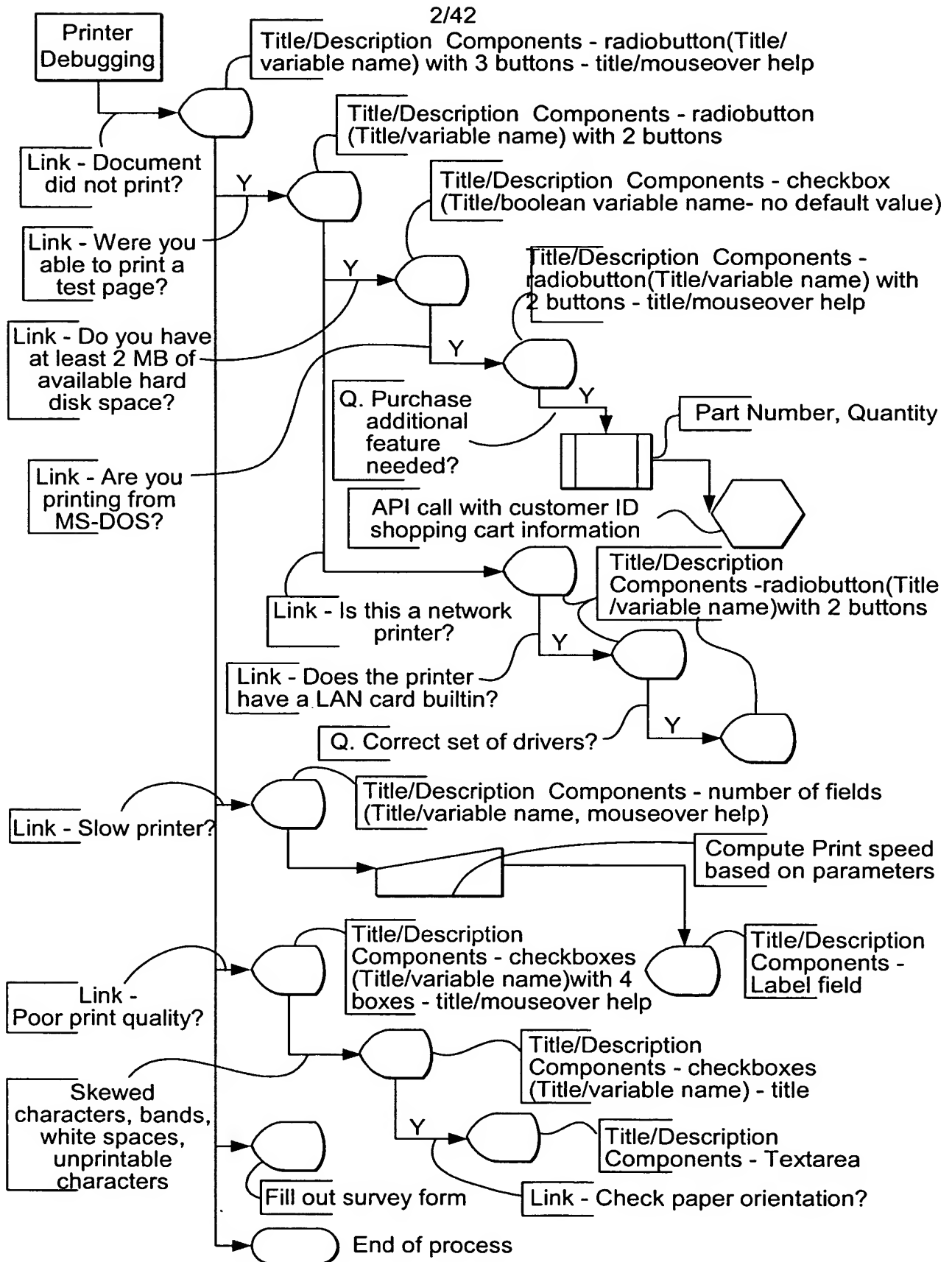


Sample Business Process

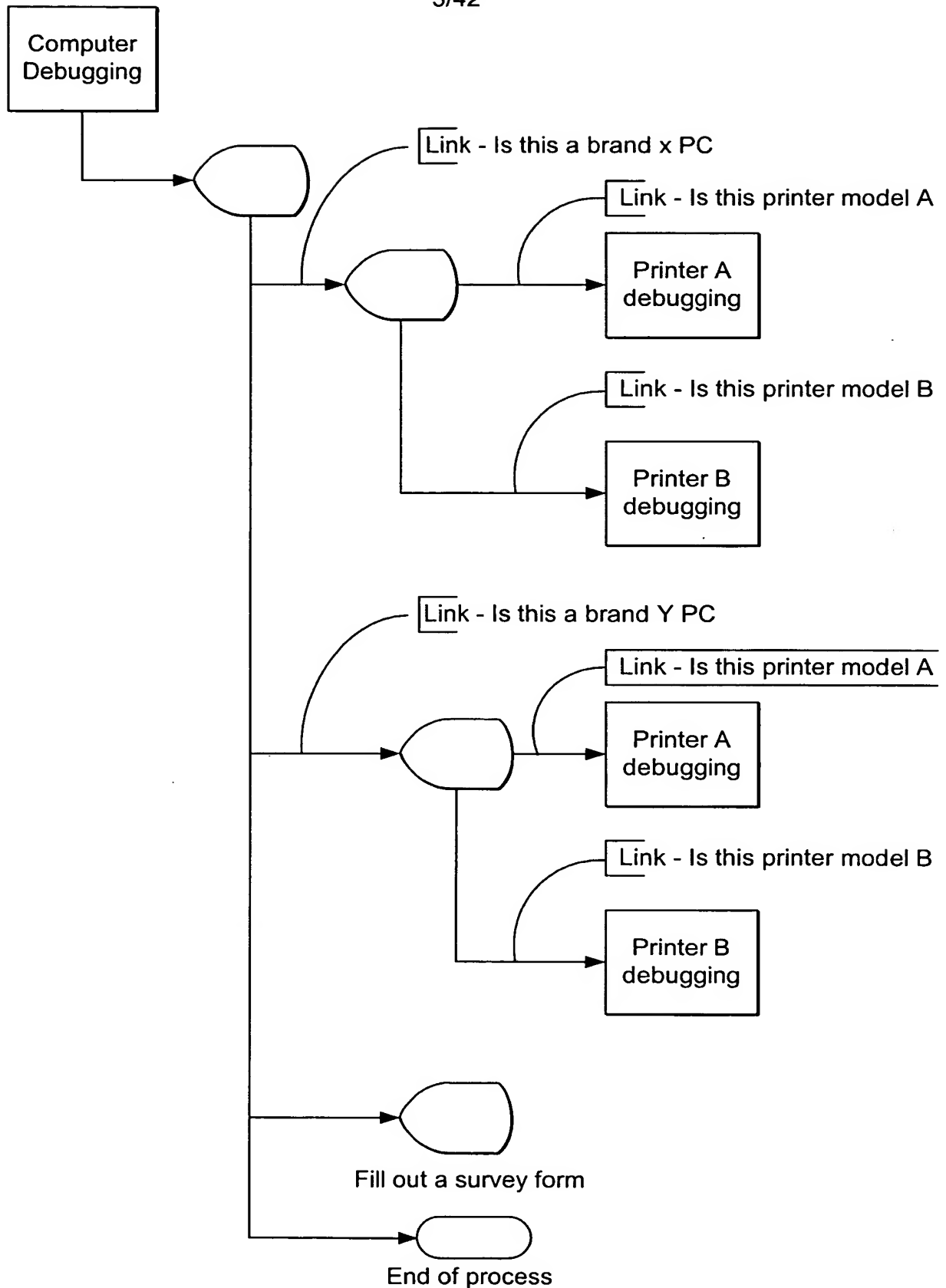
FIG. 1

BEST AVAILABLE COPY



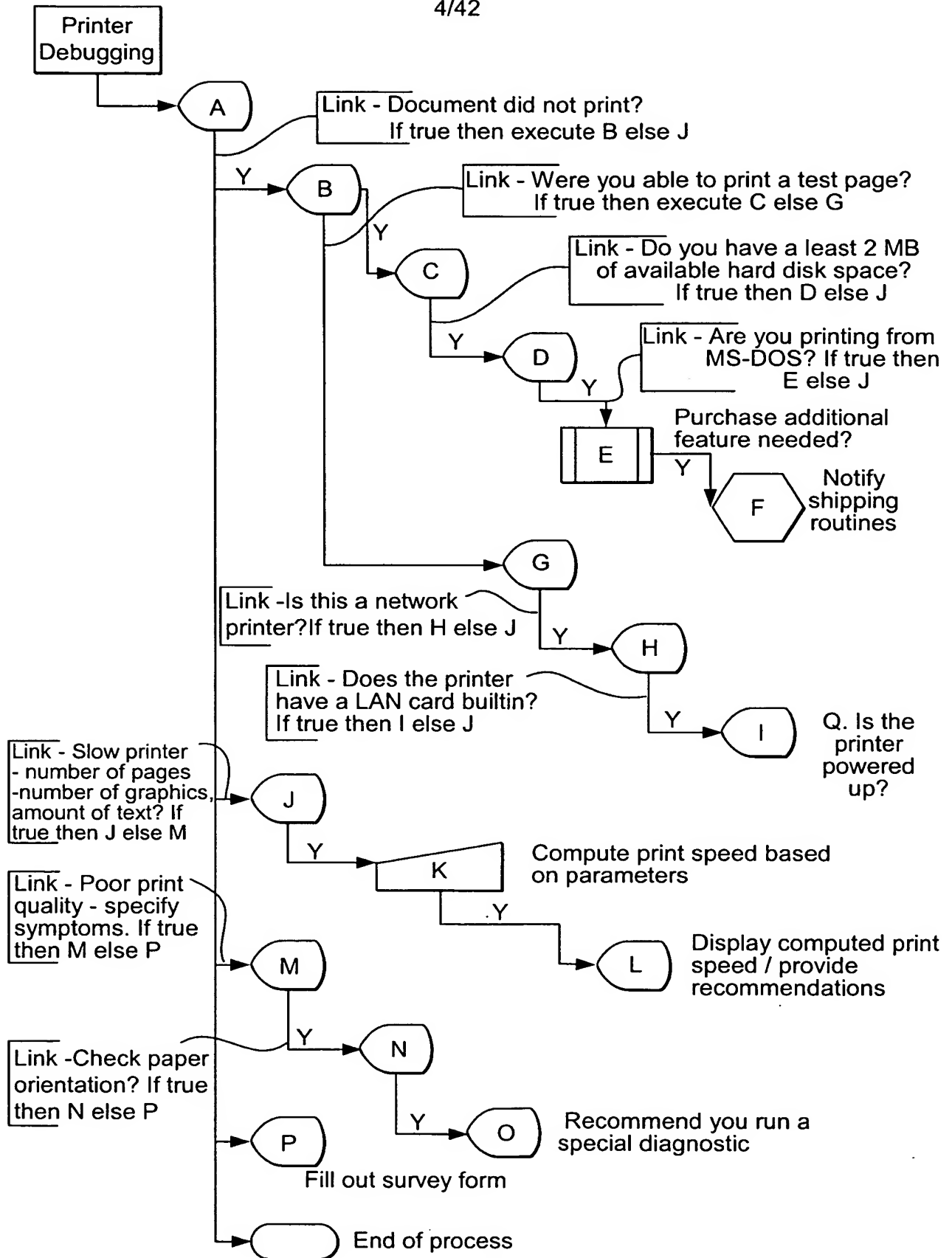
Node Example Details - Links and User Interface Specifications

FIG. 2



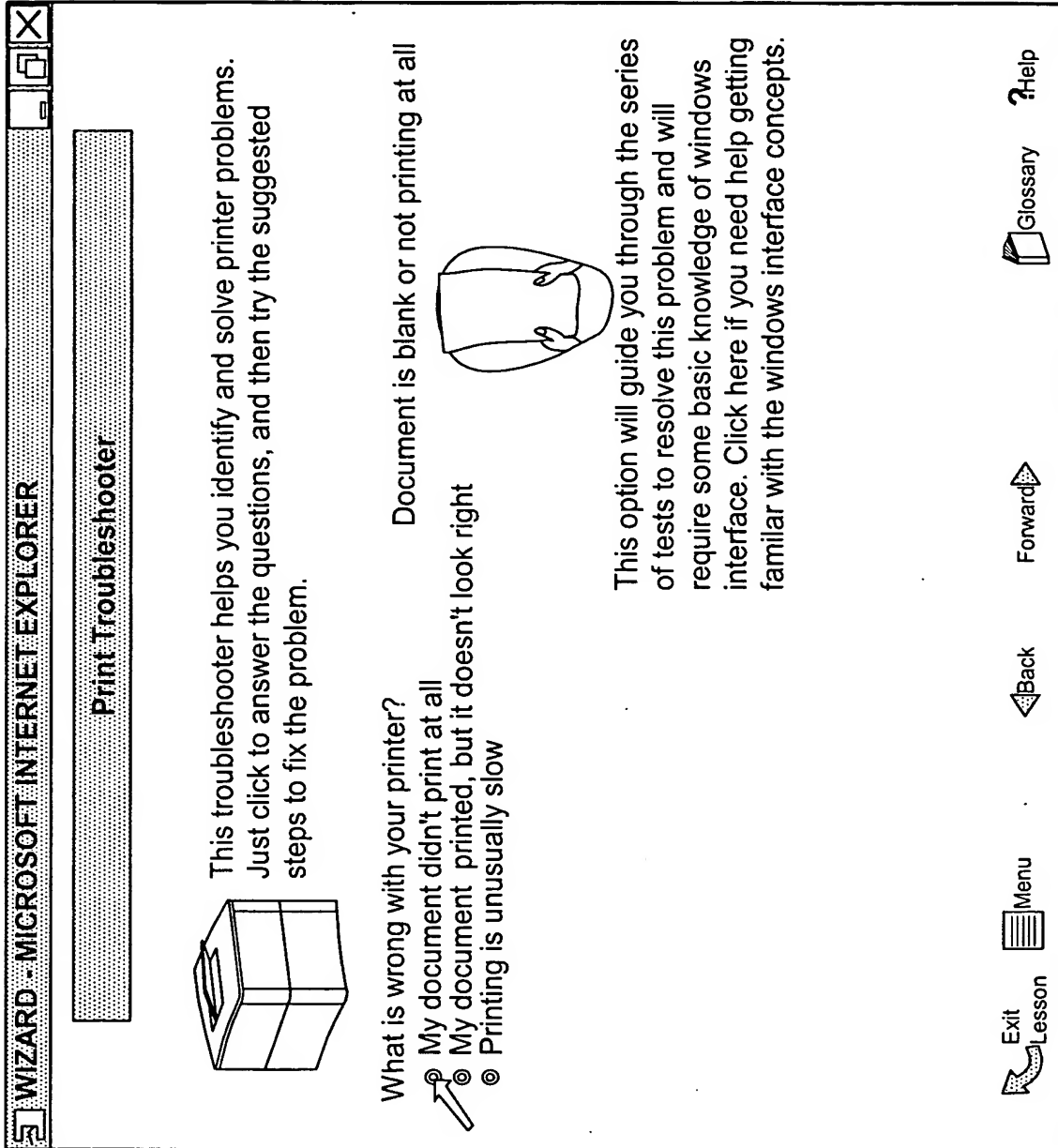
Reusable Process Definitions

FIG. 3

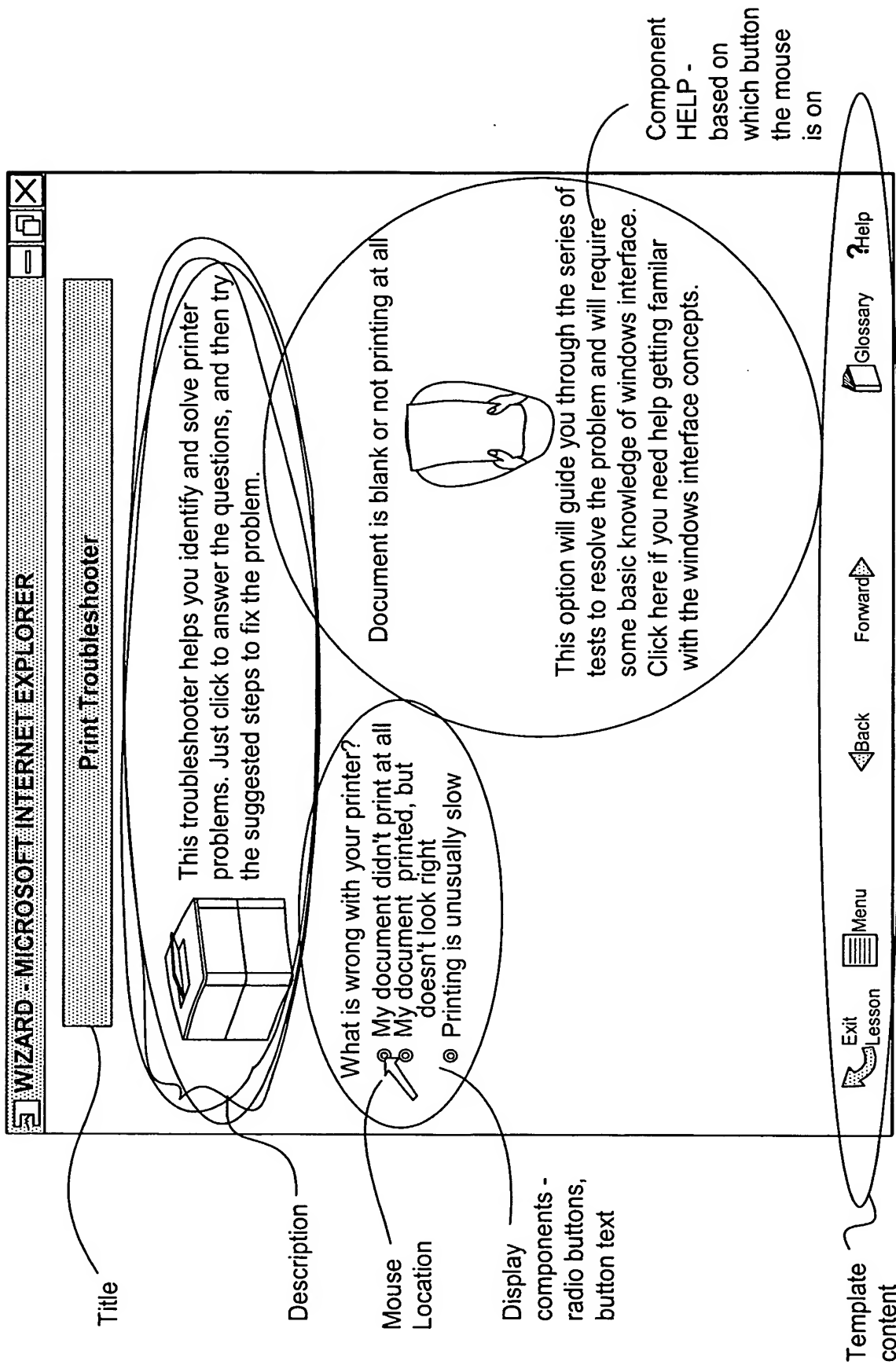


Node Conditional Logic

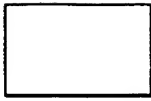
FIG. 4



Sample Application Screen Shots  
**FIG. 5**



Display Sections  
**FIG. 6**



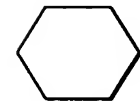
The process node represents a complete process and contains global variables for the process



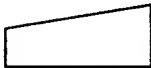
The display node represents the logic to display titles, screen descriptions and display objects such as radio buttons, pull-down menus, checkboxes etc. The individual display objects may have a wide range of animated behaviors and may accept input that is stored in global variables.



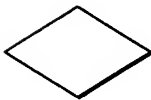
The purchase node represents the placing of a certain number of specific items for purchase on a shopping cart paradigm for later checkout. e.g., place a 4X CD-ROM, associated documentation and a software driver in the shopping cart



The interface node represents the interaction with external applications using a pre-defined interface known as an API (application programming interface) e.g., issue a call to a relational database requesting records that match a certain criteria



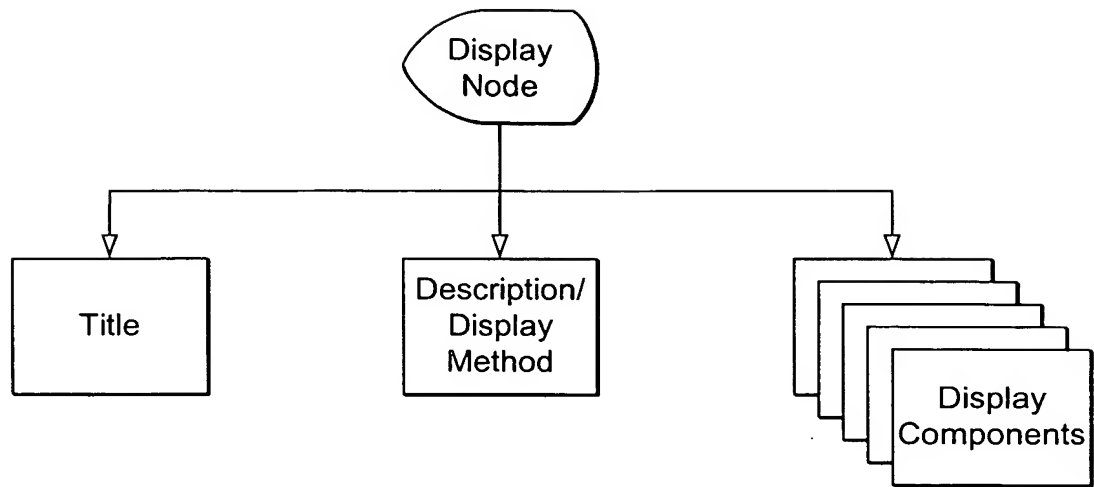
The computation node represents the computation of a variable using a formula e.g.,  $A = B^3 + 4 \cdot D^{**2} / 5.4$



Links represent the conditions under which a subsequent node will be executed e.g.,  $A < 5$  AND  $B > C$

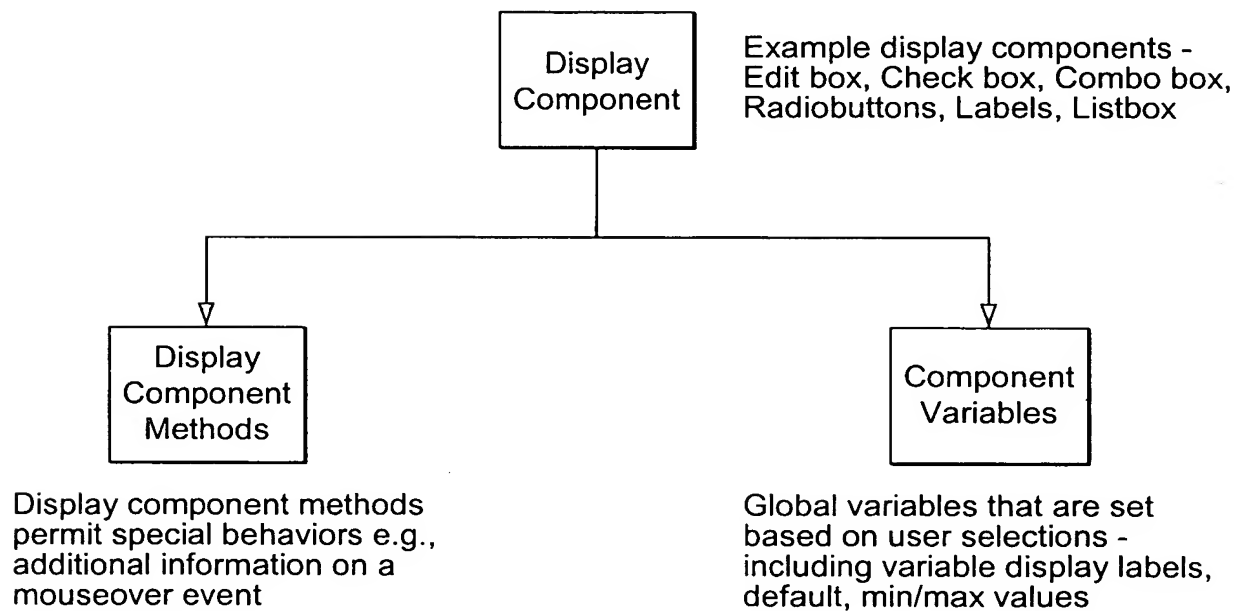
## Node Types and Links

FIG. 7



Display Node

FIG. 8

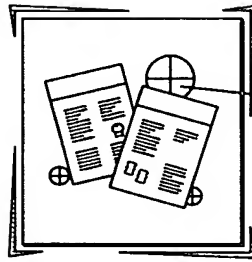


Display Components

FIG. 9

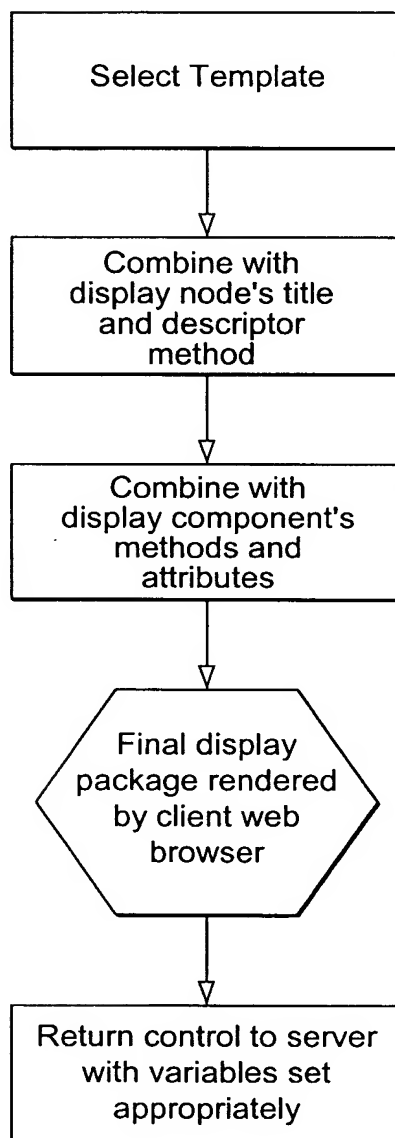


Templates provide a means to define an overall look & feel for a specific screen display



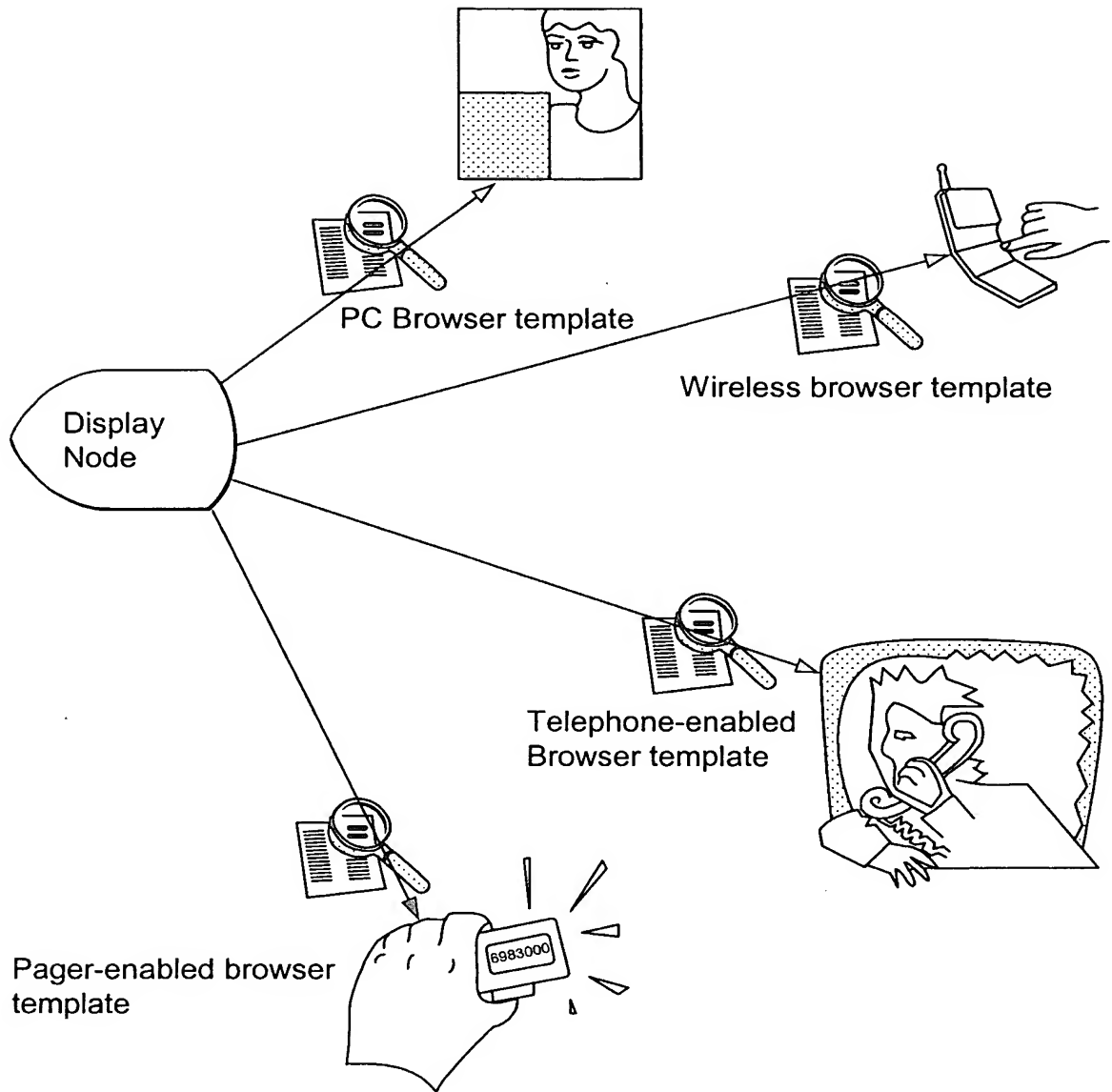
Templates may be associated with a website (lowest priority) or a specific process or with a specific display node (highest priority)

The highest priority template is the one selected



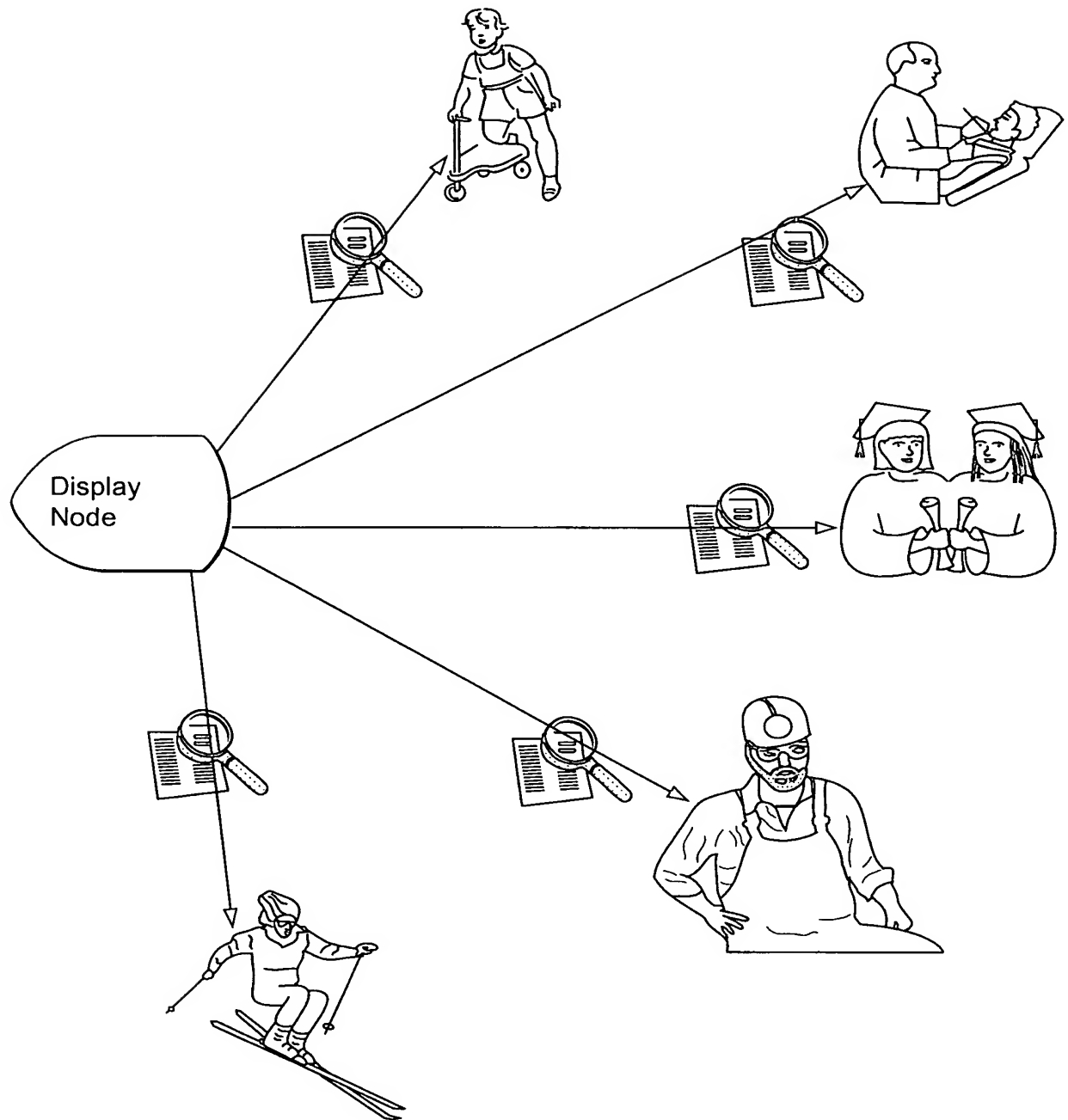
Dynamic display creation process

FIG. 10



Template-enabled browser device independence

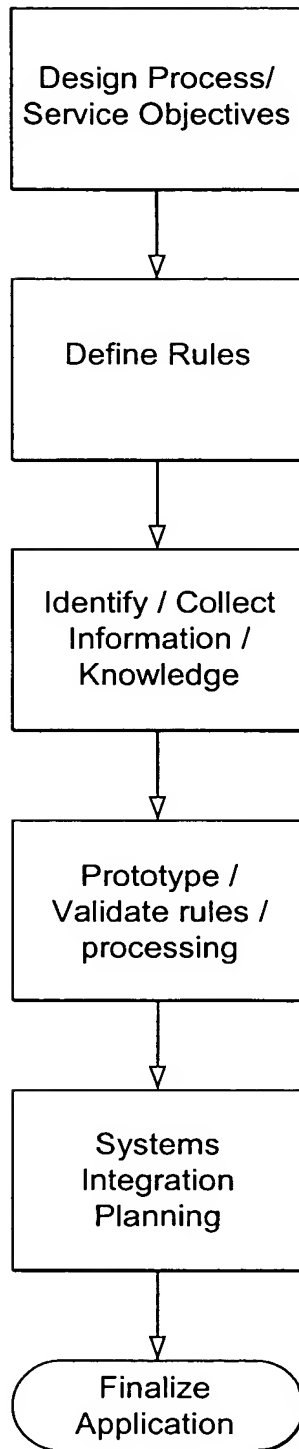
FIG. 11



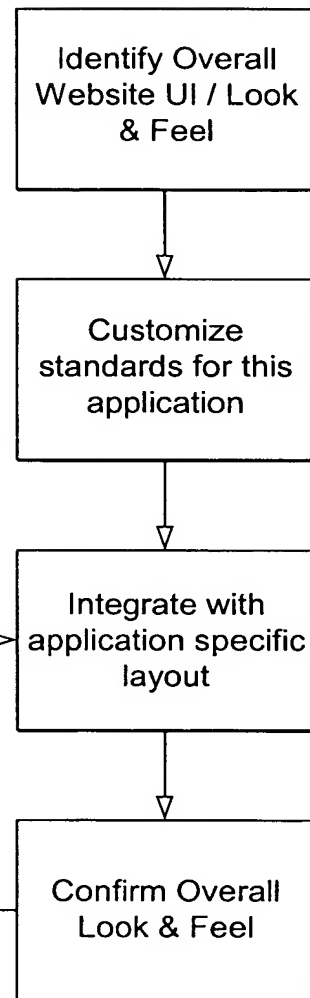
Template-enabled personalization of browser user interface

FIG. 12

## Business Process Design



## Website Design

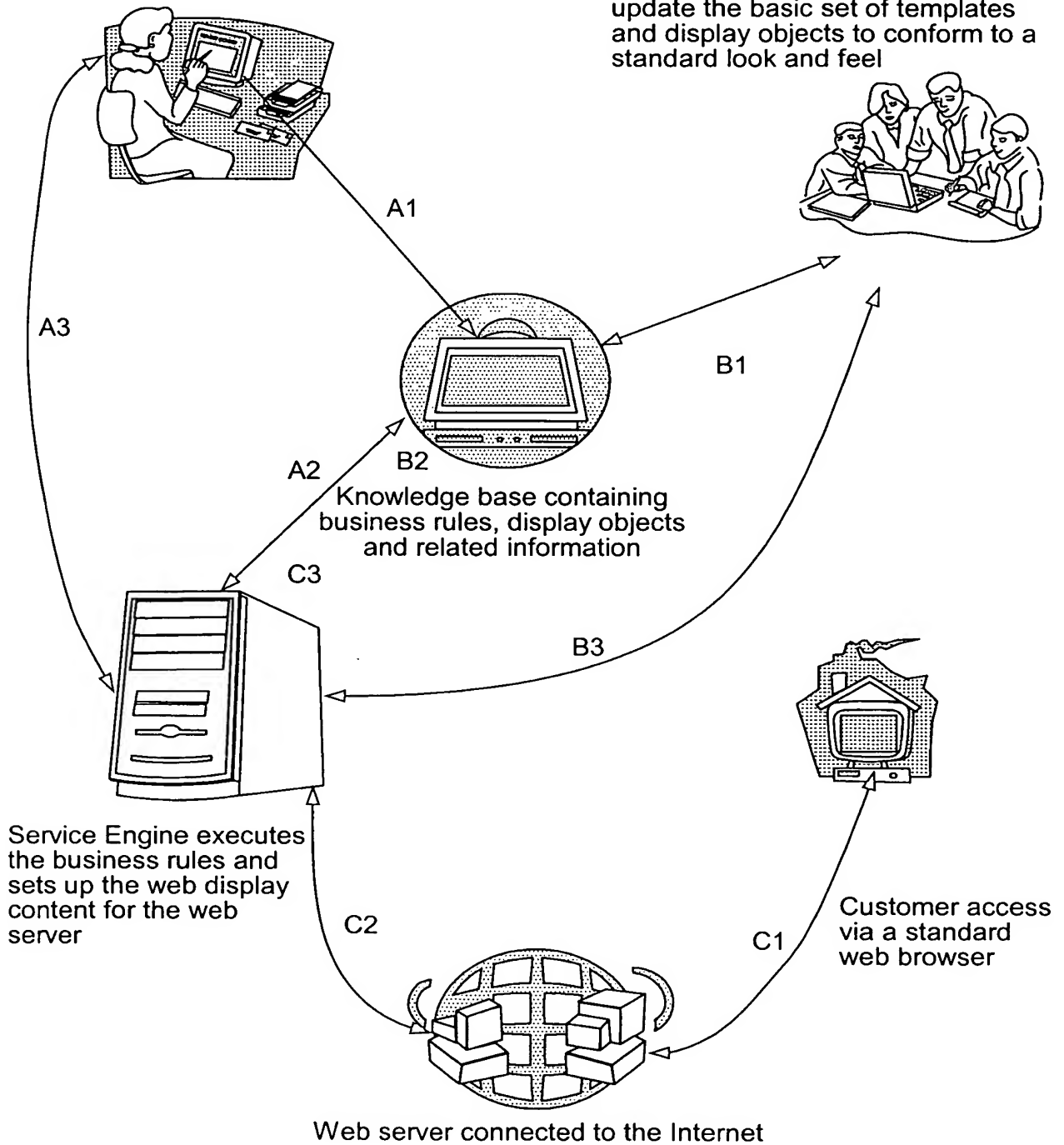


Overlapped Business Process Design and Website Design Methodology

FIG. 13

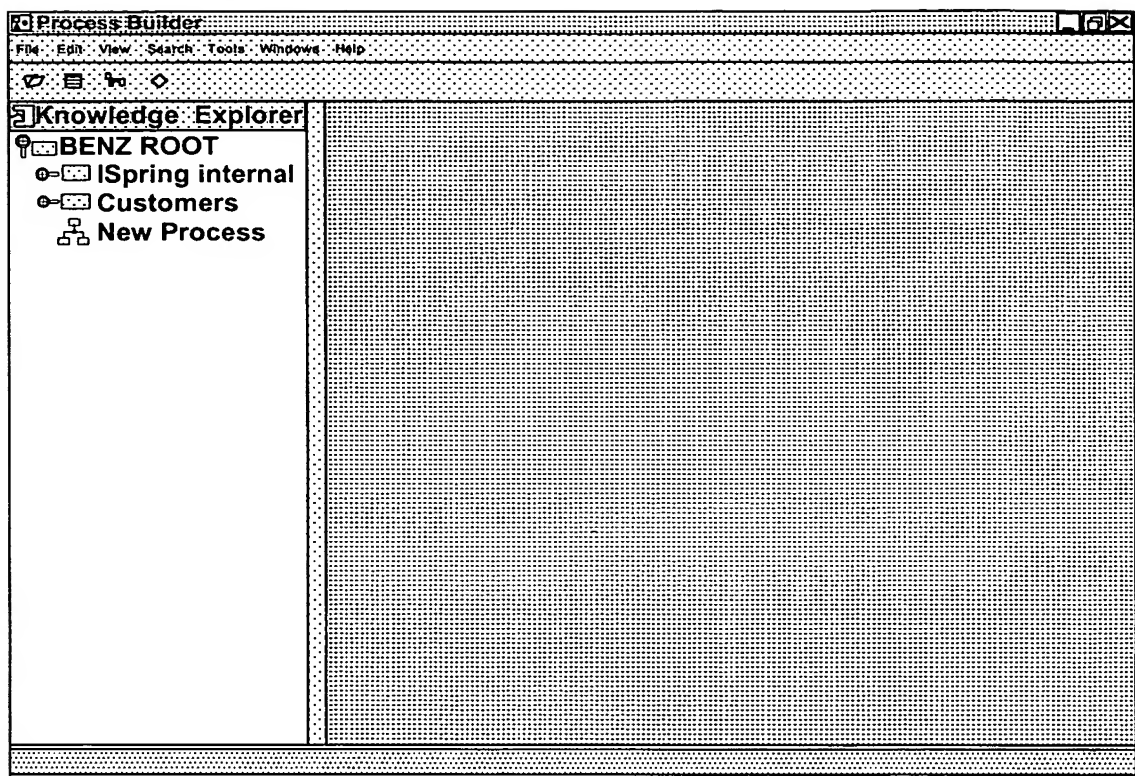
Analyst uses a process design tool to layout the target business process and corresponding rules based on documentation and best practices. She uses a set of predefined templates and display objects to set up a basic look and feel.

Company user interface designers update the basic set of templates and display objects to conform to a standard look and feel



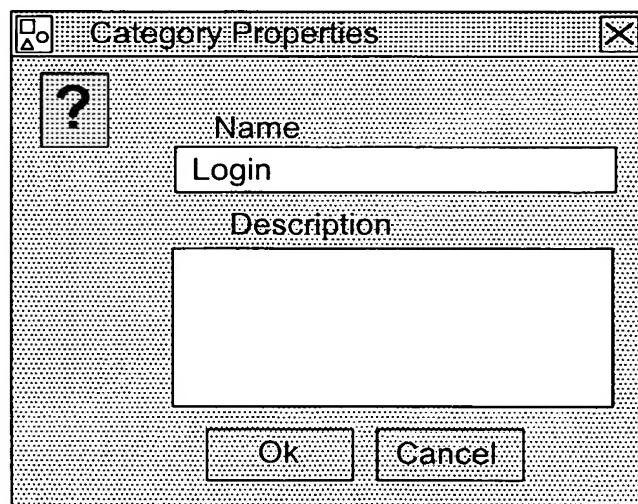
Information and Control Flow

FIG. 14



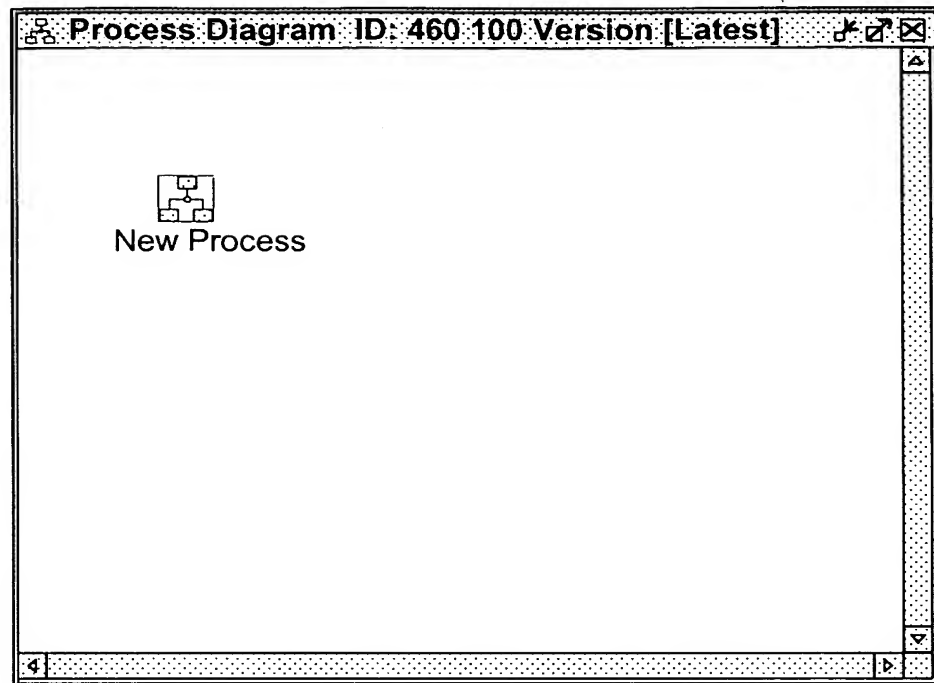
Opening Process Builder Screen

FIG. 15

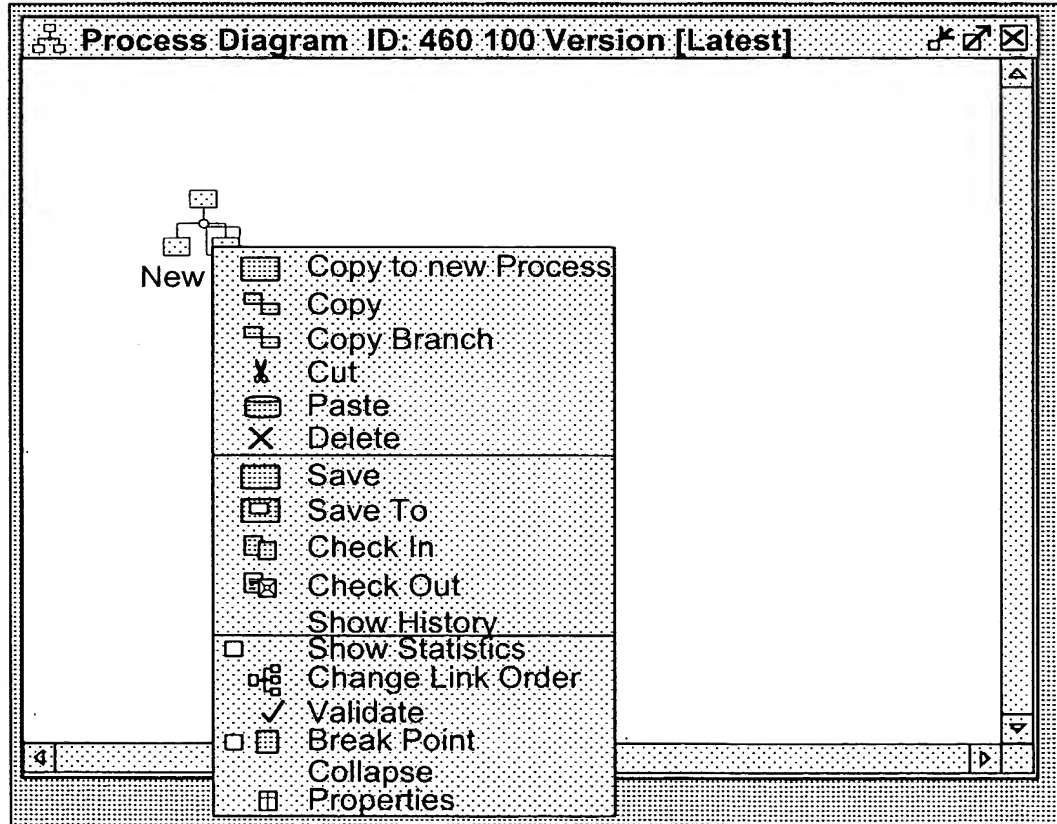


Category Properties

FIG. 16



New Process Node  
FIG. 17



Checking Out A Process  
FIG. 18

Process Node Properties - 460100

General

Schedules

Title:

New Process

Name:

New Process

Description:

Status:

New...

Delete...

Permissions...

	Name	Description	Type	Value
✓	Root			

✓Ok

XCancel

Process Node Properties

FIG. 19




Process Node Properties - 460100

General Schedules

Title: Login Process

Name: Login Process

Description:

Status: 

New... Delete... Permissions...

Name	Description	Type	Value
username		String	
password		Boolean	false
		Long	
		Object	
		String	
		Time	
		TimeStamp	
		User Type	
		XML	
		XML Element	

Root

- username
- password

Ok Cancel

List of Variable Types

FIG. 20

Process Node Properties - 460100

General Schedules

Title: Login Process

Name: Login Process

Description:

Status:

New... Delete... Permissions...

Name	Description	Type	Value
username		String	
password		String	

Root

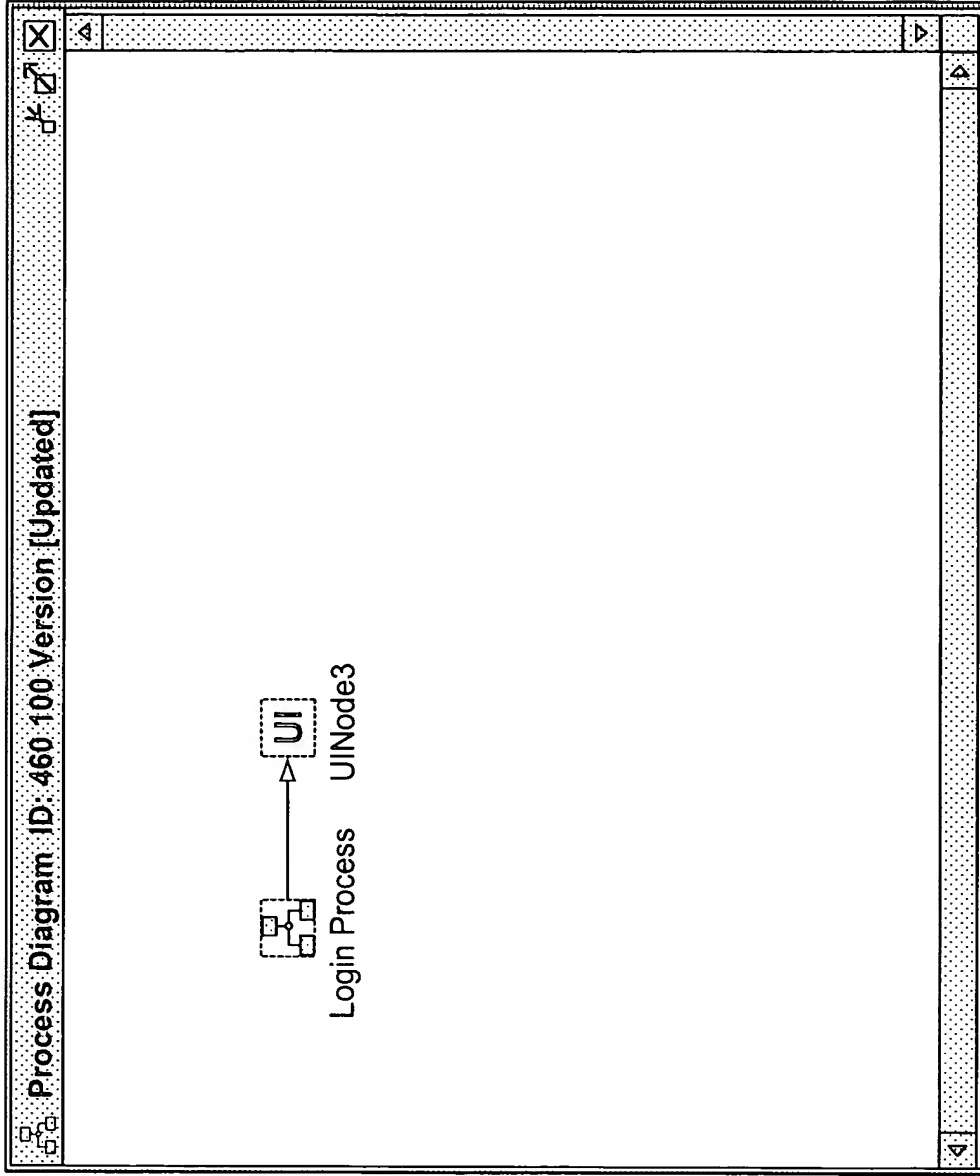
username

password

OK Cancel

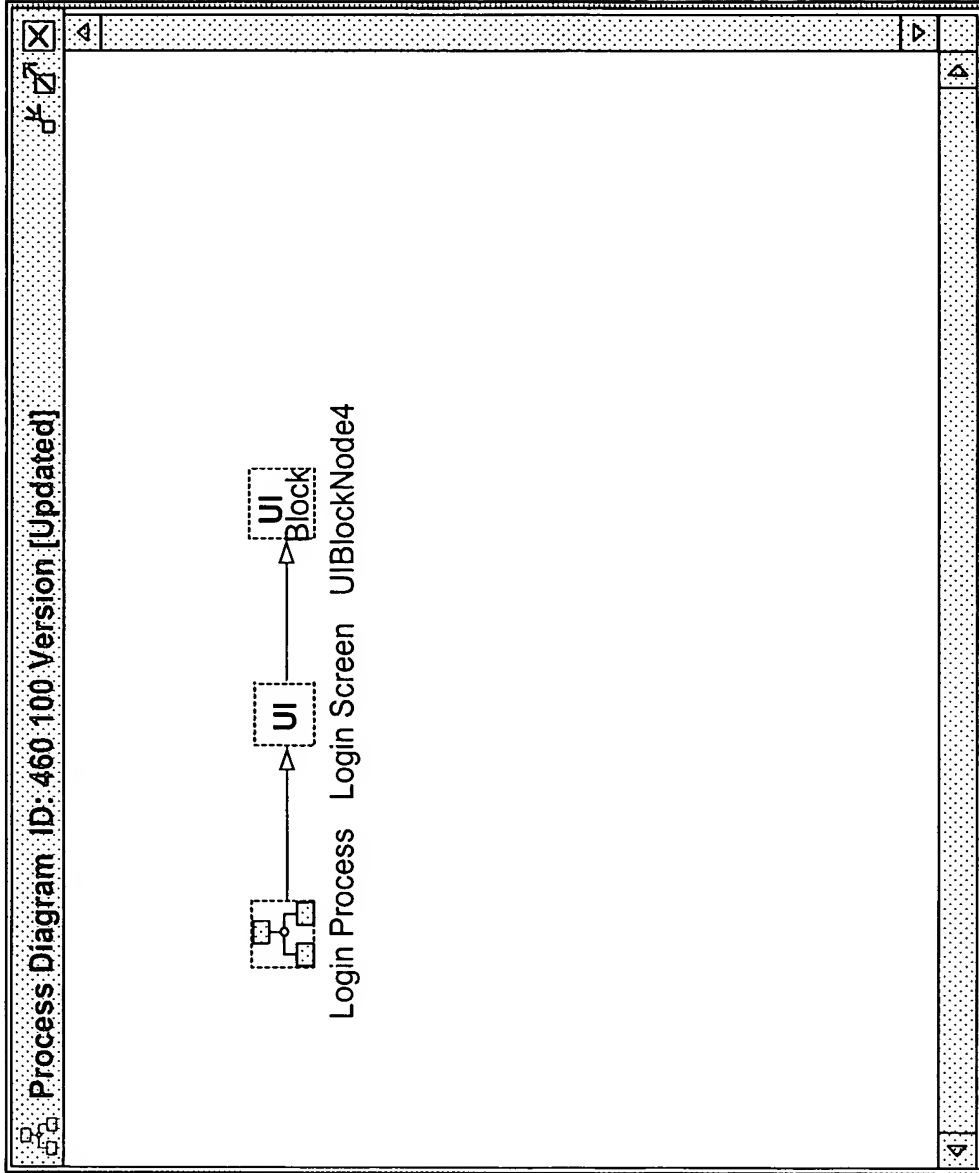
Naming Variables

FIG. 21



User Interface Node

FIG. 22



User Interface Block Node


FIG. 23

UIBlock Node Properties - 460114

General Properties

Title: Login Controls

Name: Login Controls

Description: 

Component Chooser

Selected Components


String

Available Components

Date  
DateTime  
DBList  
List  
Number  
String

General Properties Events

Title:

Description: 

Variable: \*\*\* New..

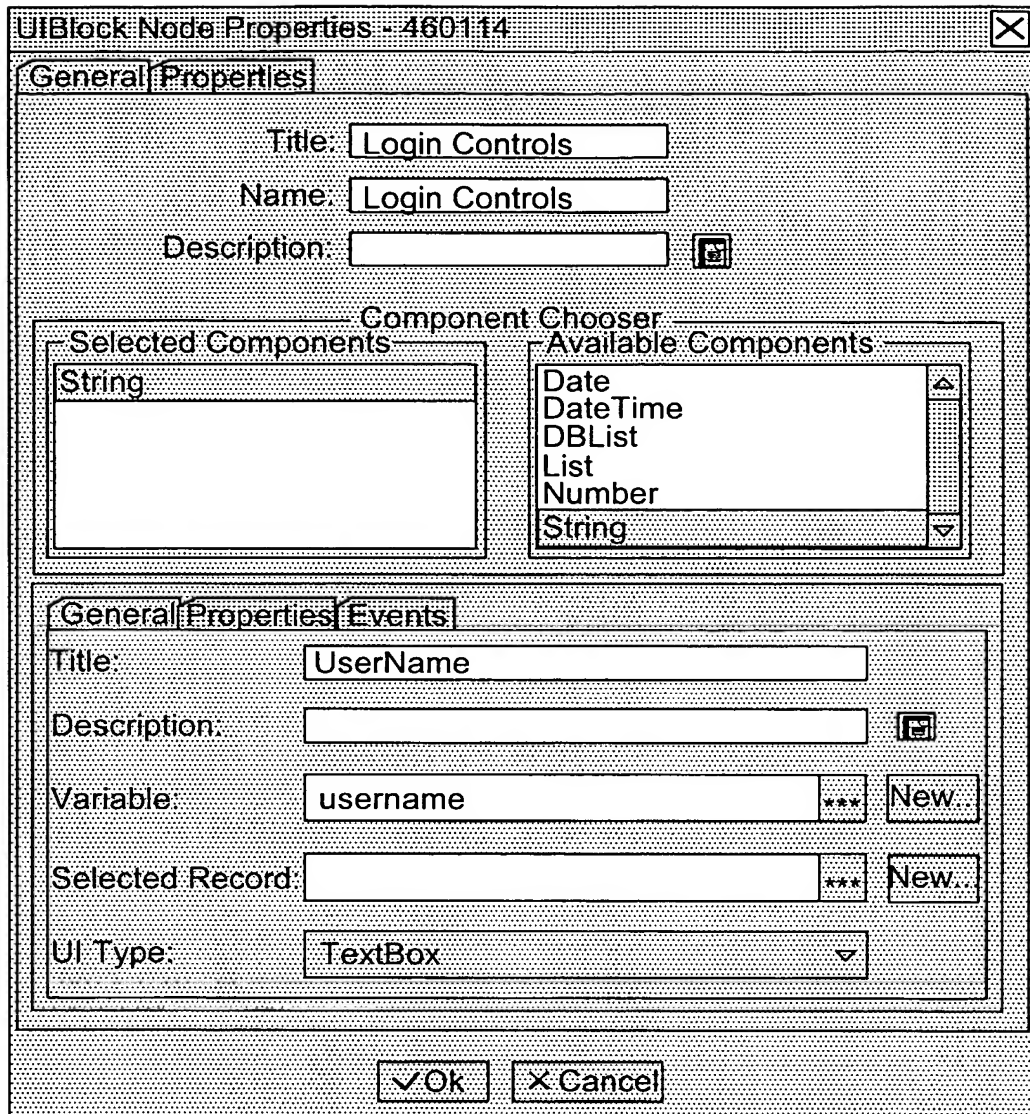
Selected Record: \*\*\* New..

UI Type:

✓ Ok X Cancel

User Interface Block Node Properties

FIG. 24




UIBlock Node Properties - 460114

General Properties

Title: Login Controls

Name: Login Controls

Description:  

Component Chooser

Selected Components


String

Available Components

Date  
DateTime  
DBList  
List  
Number  
String

General Properties Events

Title: Username

Description:  

Variable: username \*\*\* New

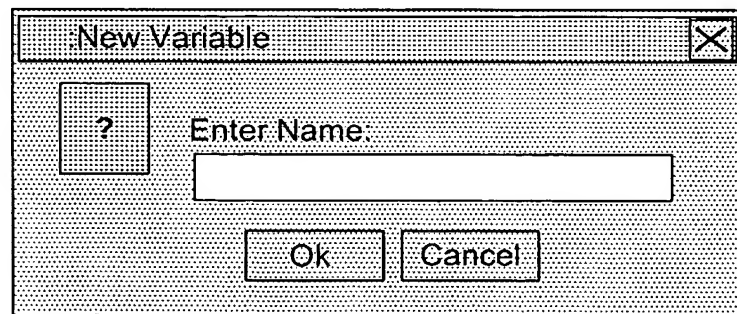
Selected Record:  \*\*\* New

UI Type: TextBox


Ok Cancel

Component Definition Box, General Tab

FIG. 25



New Variable

 Enter Name:

Ok Cancel

Variable Definition Box, User Interface Block Node


FIG. 26

UIBlock Node Properties - 460114

General Properties

Title: Login Controls

Name: Login Controls

Description:  

Component Chooser

Selected Components

String

Available Components

Date  
DateTime  
DBList  
List  
Number  
String

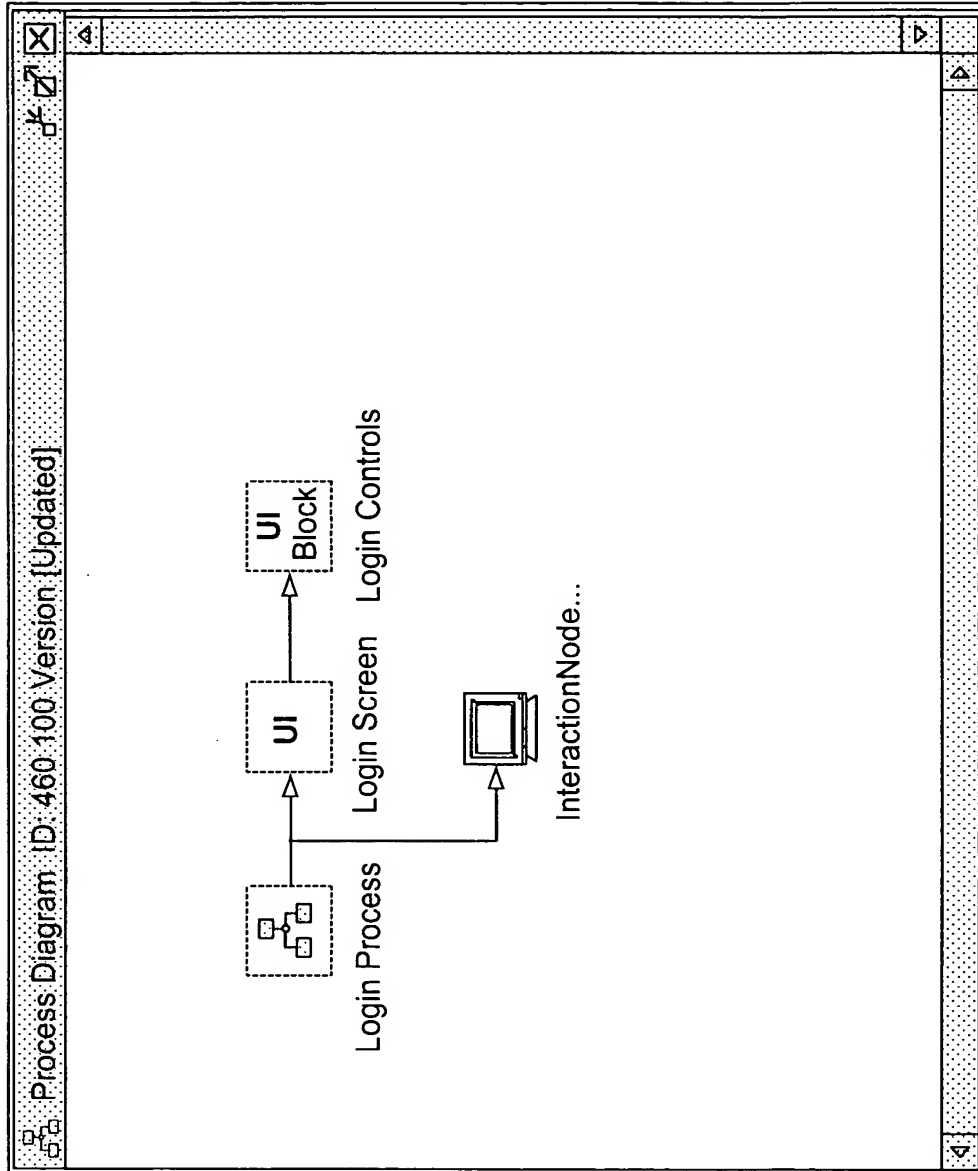
General Properties Events

Property	Value
Align	
Background color	
Caption	User Name
Caption position	
Caption suffix	
Enabled	
Font color	
Font face	
Font size	
Font style	

✓ Ok X Cancel

Component Definition Box, Properties Tab

FIG. 27



Interaction Node

FIG. 28



Interaction Node Properties - 460117

General Properties

Title: Login Interaction

Name: Login Interaction

Description:

UI Nodes

UI Nodes	Add>>	Remove	Up	Down
Login Screen				

Interface or Process

Interface:

Process: Select Process

Parameters

Interface	Process
Column Name	Variable

✓Ok X Cancel

Selecting a User Interface Node

FIG. 29

Interaction Node Properties - 460117

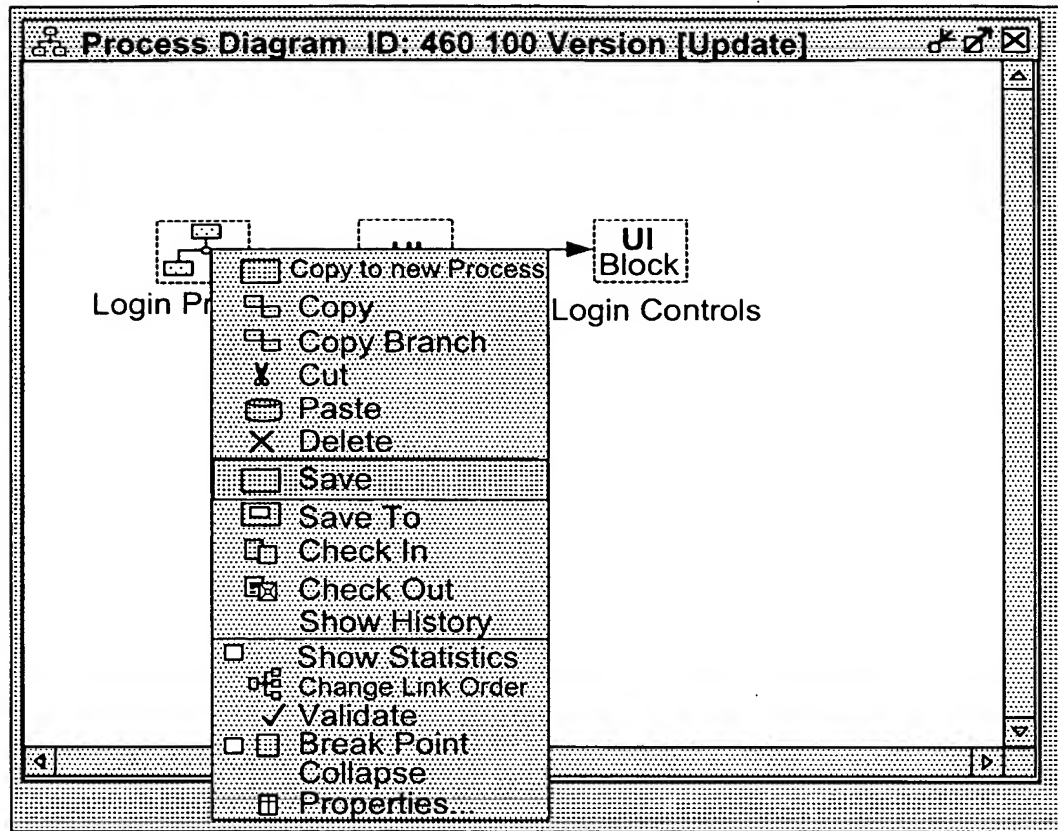
General Properties

Property	Value
backbuttoncaption	
backbuttonimage	
backbuttonvisible	false
bgcolor	
caption	
captionbgcolor	
captioncolor	
debug	
description	
email	
enabled	
fontcolor	
fontface	
fontsize	
fontstyle	
fontweight	
keephistory	
nextbuttoncaption	
nextbuttonimage	
nextbuttonvisible	
requiredfieldindicator	
resetbuttonvisible	
template	MSTemplate
title	

✓ Ok X Cancel

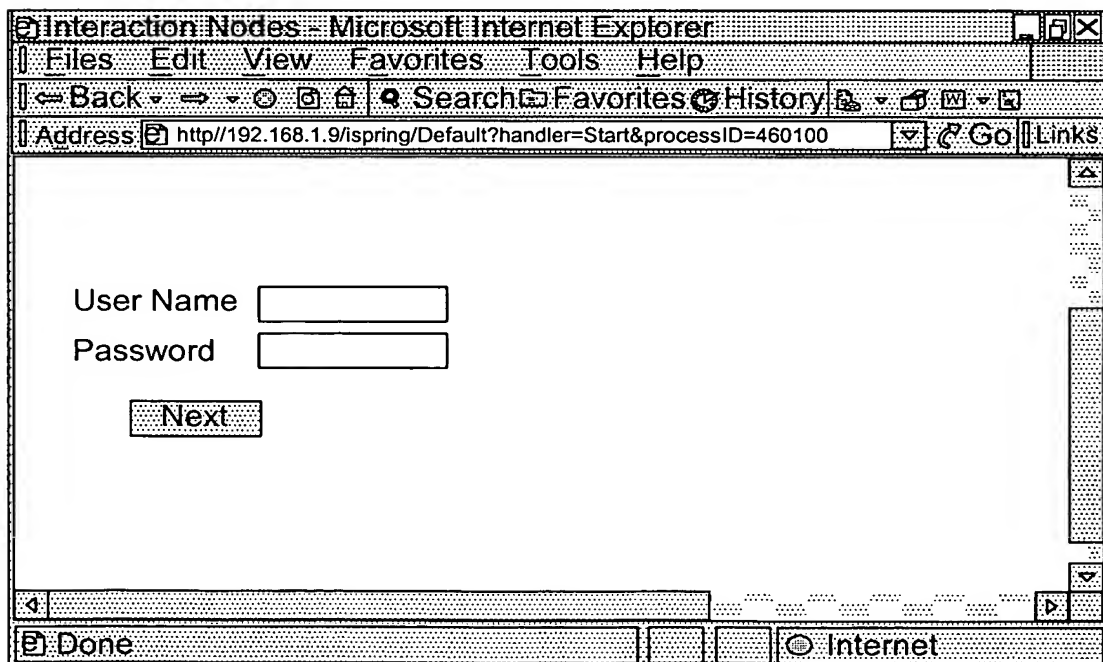
Interaction Node's Properties

FIG. 30



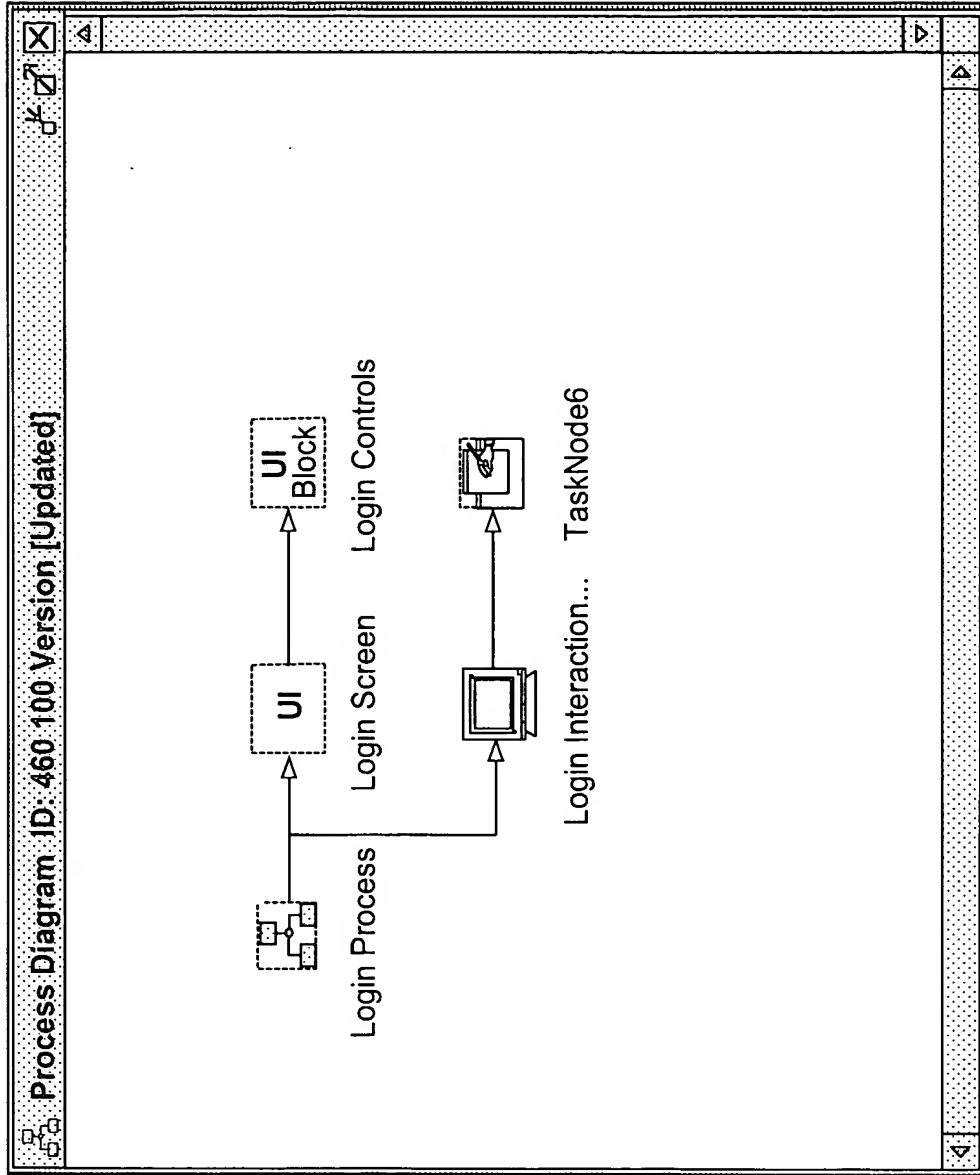
Process Node Menu, Save Process

FIG. 31



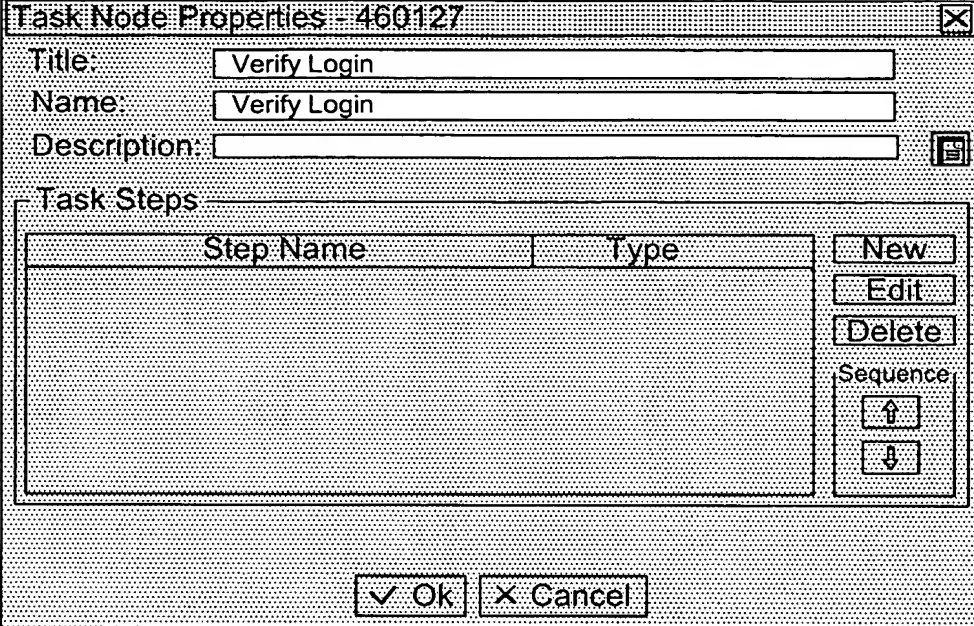
Login Process URL, Basic Fields

FIG. 32



Task Node

FIG. 33



Task Node Properties - 460127

Title:

Name:

Description:

Task Steps

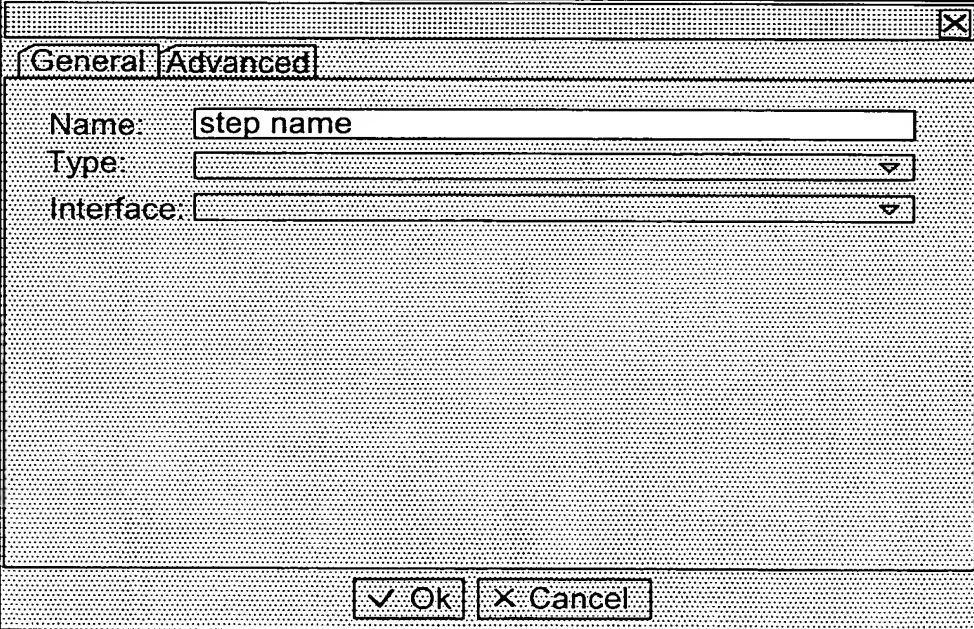
Step Name	Type
-----------	------

New  
Edit  
Delete  
Sequence  
↑  
↓

✓ Ok X Cancel

Task Node Properties

FIG. 34



General Advanced

Name:

Type:

Interface:

✓ Ok X Cancel

Step Definition Box

FIG. 35

A screenshot of a software configuration dialog box with a title bar and a close button (X). The dialog has two tabs: 'General' (selected) and 'Advanced'. In the 'General' tab, there are three labeled fields: 'Name' with the text 'verify against database', 'Type' with a dropdown menu showing 'Database', and 'Interface' with an empty dropdown menu. At the bottom right, there are two buttons: 'Ok' (with a checkmark icon) and 'Cancel' (with an X icon).

Selecting a Step Function

FIG. 36

A screenshot of the same software configuration dialog box, but with the 'Advanced' tab selected. The 'Name' field remains 'verify against database' and the 'Type' dropdown remains 'Database'. The 'Interface' dropdown now shows 'MS Verify Login'. Below these fields is a 'Return Value' section containing a text field with 'userinfo' and a 'New...' button. Underneath is a table with two columns: 'Column Name' and 'Variable'. The table contains two rows: '@Alias' and '@Pwd'. At the bottom of the 'Return Value' section are two buttons: 'Input' and 'Output'. The 'Ok' and 'Cancel' buttons are at the bottom right of the dialog.

Column Name	Variable
@Alias	
@Pwd	

Database Variable Interface Options

FIG. 37

General Advanced

Name:

Type:

Interface:

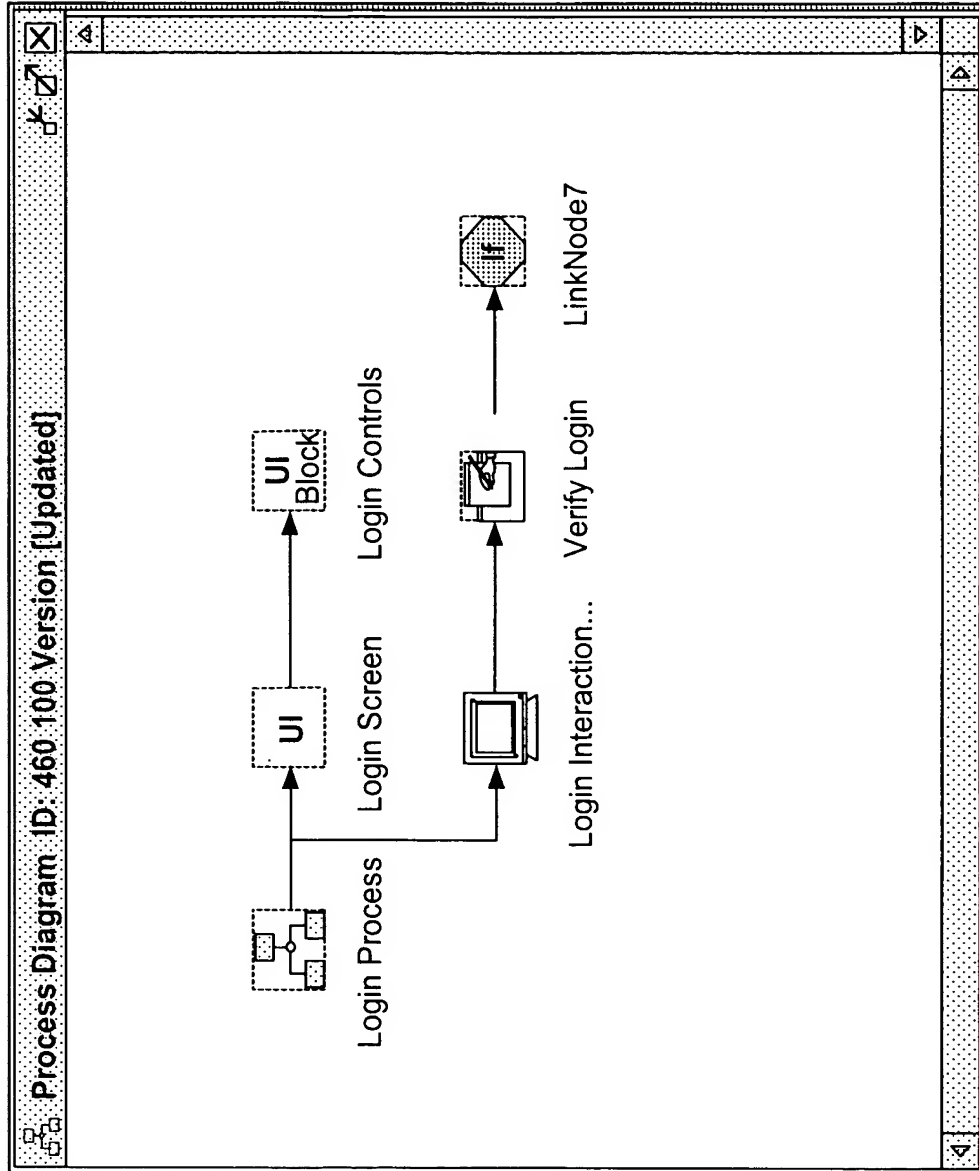
Return Value:

Column Name	Variable
@Alias	username
@Pwd	password

Input Output

Database Variables, Mapping Parameters

FIG. 38



Decision Node

FIG. 39



**Link Node Properties**

**General** | **Properties**

Title:

Name:

Description:

IF

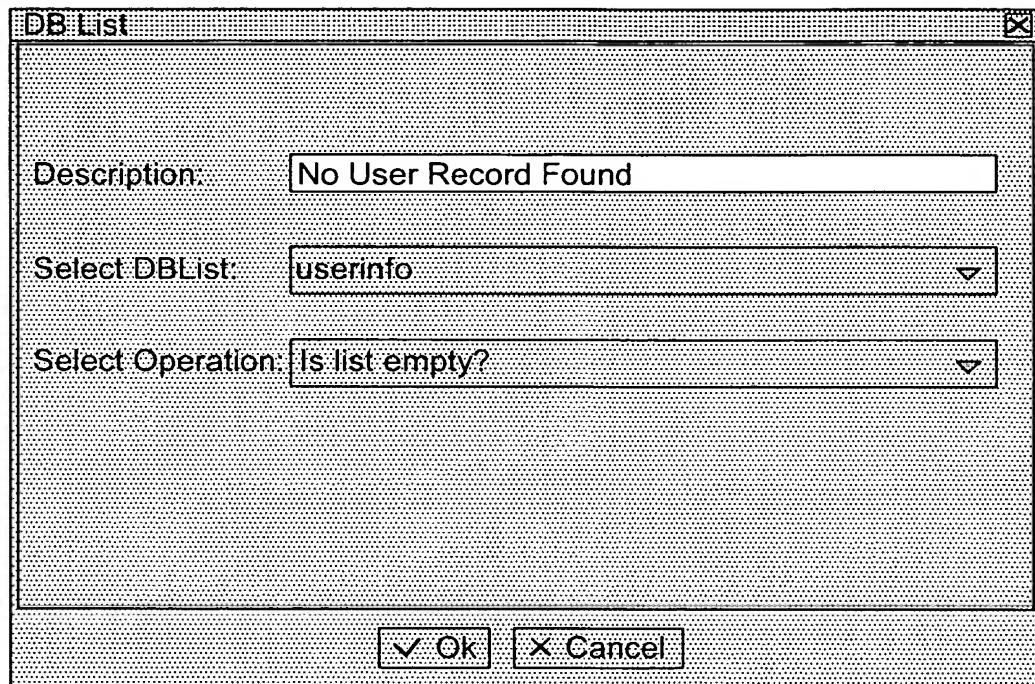
Decision Node's Properties Dialog Box

FIG. 40

Wizard Name	Description
Script	Write Customer java Code
Set Conditions	Set Conditional expression
DB List	Operations on DB List
Node Properties	Set Node Properties
Node Component Properties	Set Node Component Properties
XML	XML
Variable Functions	
DB Record	Operations on DB Record
Assign Expression	Assign Expression
Condition Revisited	Condition

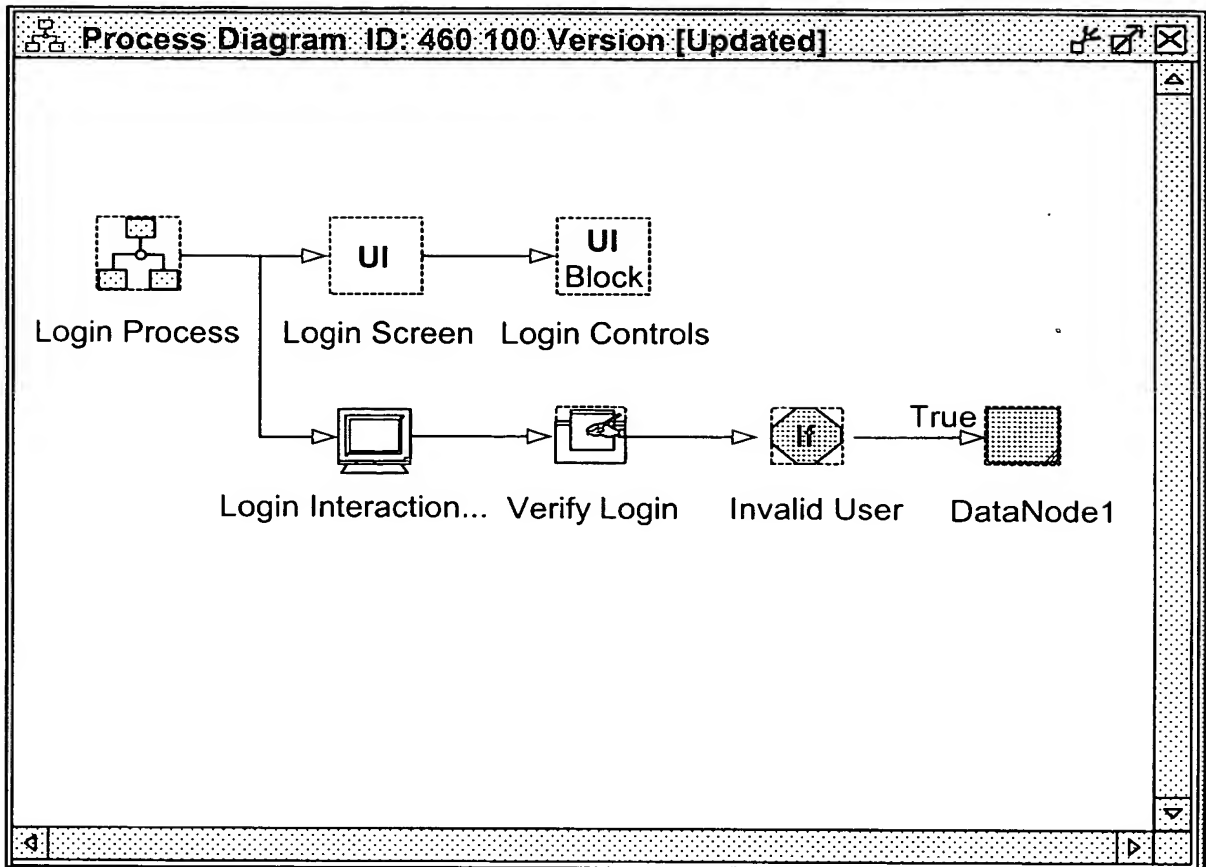
Decision Node Wizard Box

FIG. 41



DBList's Properties Dialog Box

FIG. 42



Data Node

FIG. 43

Wizard Name:	Description:
Script	Write Customer java Code
Assign Variable	Assign Variable
DB List	Operations on DB List
Node Properties	Set Node Properties
Node Component Properties	Set Node Component Properties
XML	XML
Variable Functions	
DB Record	Operations on DB Record
Assign Expression	Assign Expression

✓ Ok    ✕ Cancel

Wizard Box

FIG. 44

Node Component Properties

Description

Node Name	Description
LoginScreen	
LoginControls	
LoginInteraction	
VerifyLogin	
InvalidUser	
ShowErrorMessage	

String - UserName

String - Password

String - UserNotFound

Property	Value
Background color	
Caption	
Caption position	
Enabled	
Font color	
Font face	
Font size	

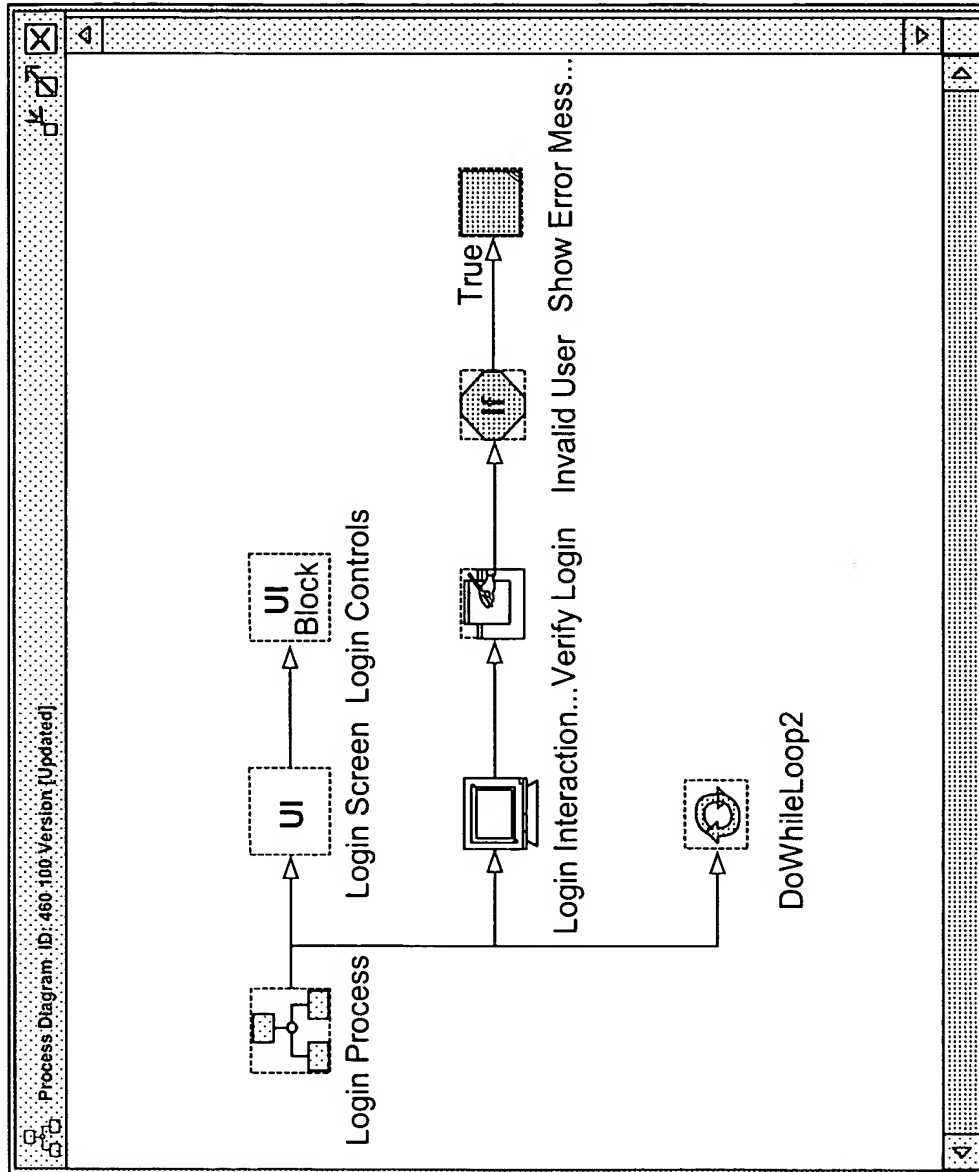
✓ Ok

✕ Cancel

Apply

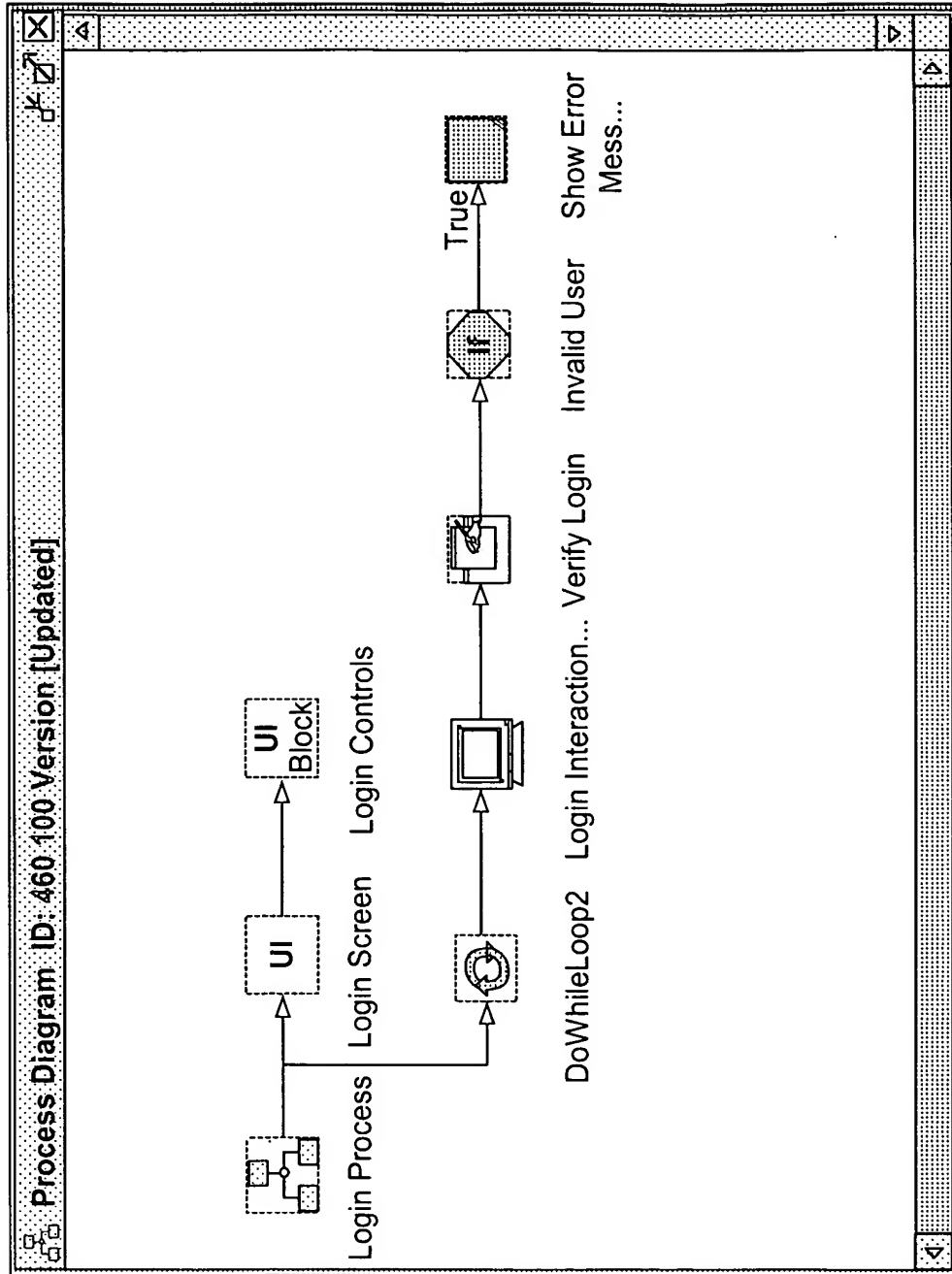
Node Components Properties Dialog Box

FIG. 45



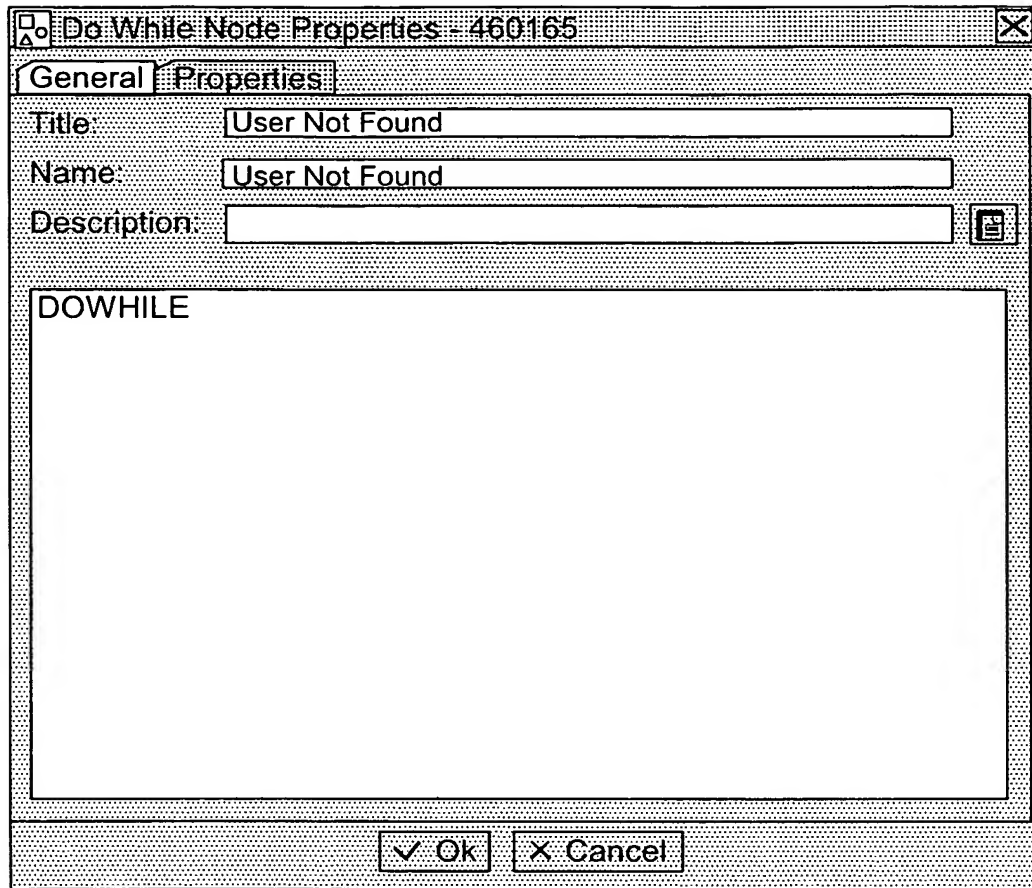
Do While Loop Node

FIG. 46



Loop Process

FIG. 47



Do While Node Properties - 460165

General Properties

Title: User Not Found

Name: User Not Found

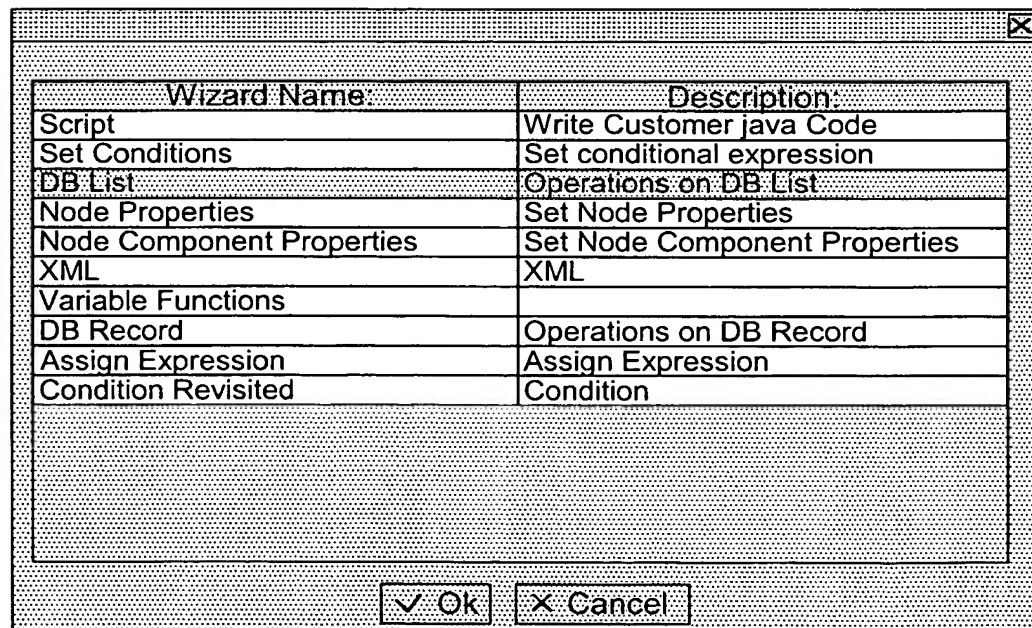
Description:

DOWHILE

✓ Ok ✗ Cancel

Do While Loop Node's Properties Dialog Box

FIG. 48

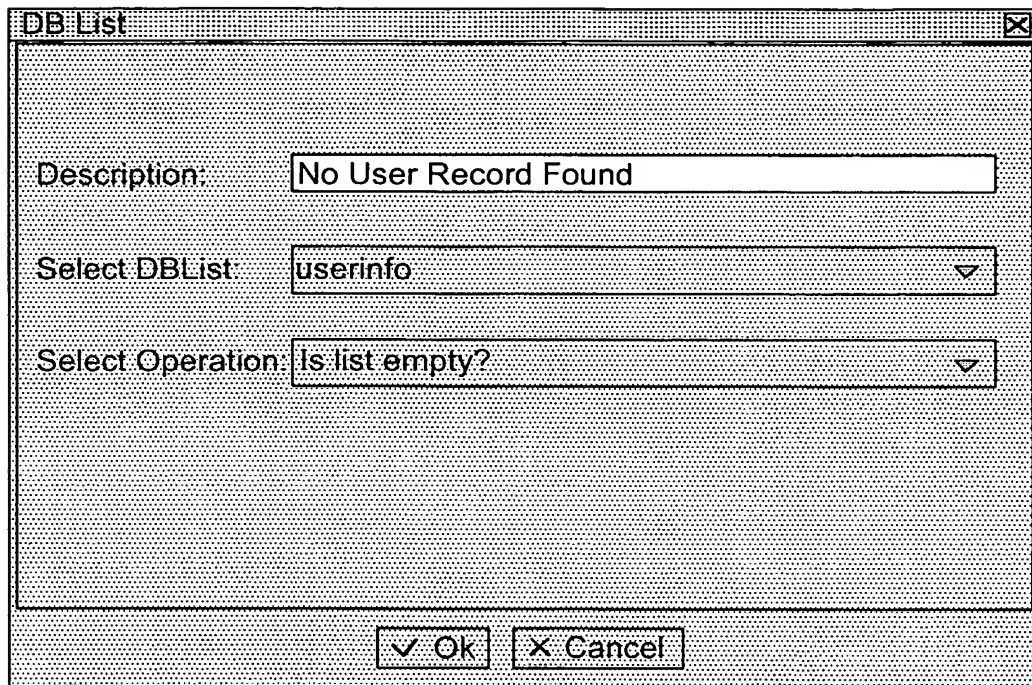


Wizard Name:	Description:
Script	Write Customer java Code
Set Conditions	Set conditional expression
DB List	Operations on DB List
Node Properties	Set Node Properties
Node Component Properties	Set Node Component Properties
XML	XML
Variable Functions	
DB Record	Operations on DB Record
Assign Expression	Assign Expression
Condition Revisited	Condition

✓ Ok ✗ Cancel

Do While Loop Node Wizard Box

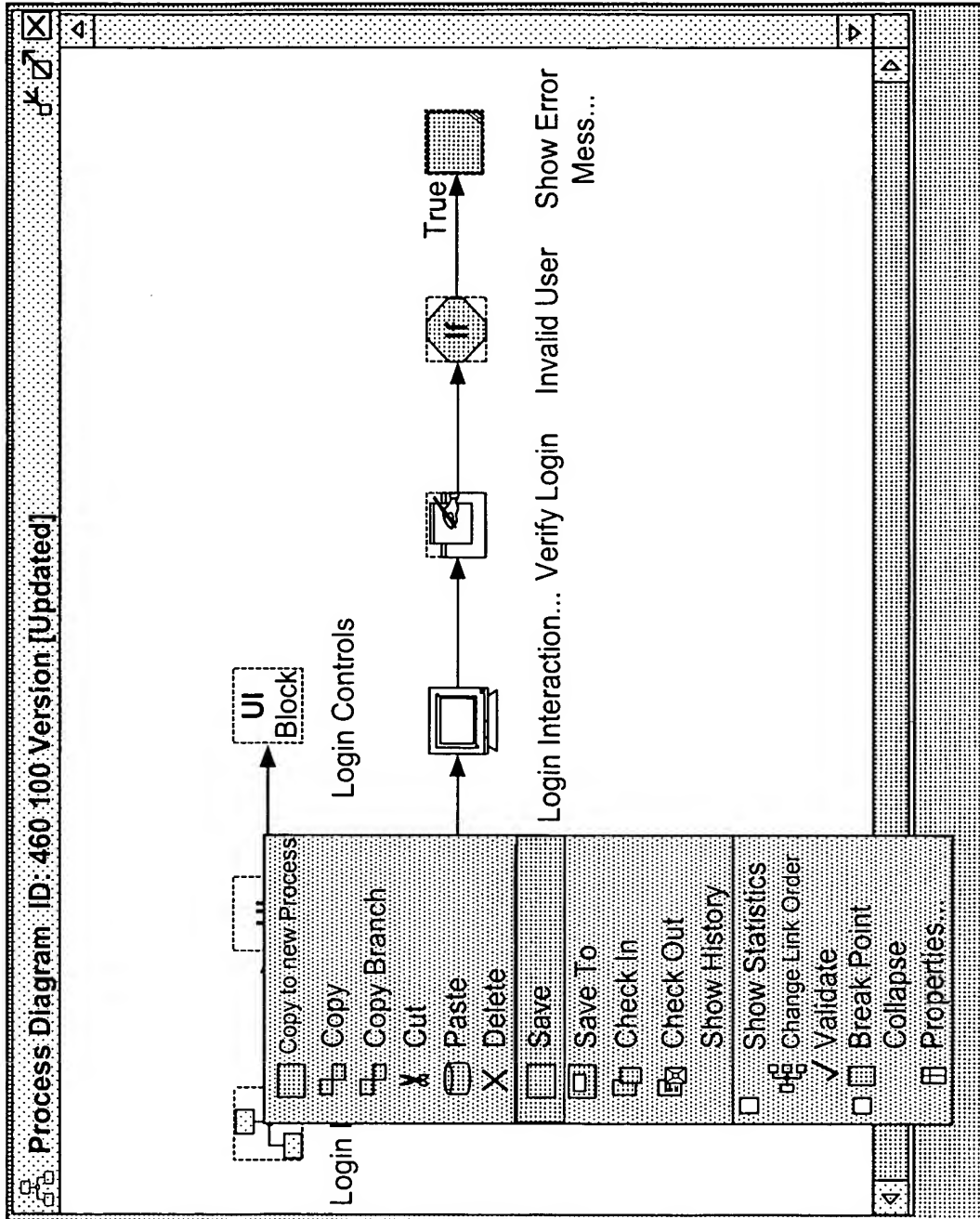
FIG. 49



DBList's Properties Dialog Box

FIG. 50





Process Node Menu, Save Process

FIG. 51

The image is a screenshot of a Microsoft Internet Explorer browser window. The title bar reads "Interaction Nodes - Microsoft Internet Explorer". The menu bar includes "File", "Edit", "View", "Favorites", "Tools", and "Help". The address bar shows the URL "http://192.168.1.9/ispring/Default?handler=Start&processID=460100". The main content area displays a login form with the following elements:

- "User Name" label followed by a text input field.
- "Password" label followed by a text input field.
- A "Next" button below the password field.

The status bar at the bottom shows "Done" and "Internet".

Login Process URL, Basic Fields

FIG. 52

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